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National Highway Traffic Safety Administration

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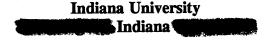
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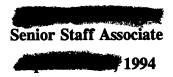
TRANSPORTATION RESEARCH CENTER



ON-SITE AIR BAG INVESTIGATION

CASE NO. - 94-09
FLEET - PRIVATE VEHICLE
LOCATION - KENTUCKY
ACCIDENT DATE - 1994

Submitted By:



Contract Number: DTNH22-94-D-17058

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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On-site air bag deployment investigation involving a 1991 Chevrolet Corsica

16. Abstract

This report covers an on-site investigation of an air bag deployment crash that involved a 1991 Chevrolet Corsica and a 1988 Chevrolet C-1500 pickup truck. The Corsica was traveling west in the westbound lane of a two-lane, undivided roadway. The C-1500 pickup was traveling east in the eastbound lane of the same two-lane, undivided roadway. The front left corner of the Corsica (case vehicle) impacted the front left corner of the the C-1500 pickup (vehicle #2) causing the case vehicle's driver side supplemental restraint (air bag) to deploy. The case vehicle rotated approximately 180 degrees counterclockwise after impact and came to rest on the north shoulder heading east. Vehicle #2 rotated approximately 90 degrees counterclockwise after impact and came to rest in the roadside grass on the south side of the roadway heading north. The case vehicle's driver (23 year-old male) was also restrained by the available, active, three-point, lap and shoulder belt and sustained, according to his medical records, fatal head injuries which included: concussion; bilateral subarachnoid hemorrhages; left depressed skull fracture with left cerebral contusions and laceration; intraventricular hemorrhage in the third ventricle; and a basilar skull fracture to the posterior cranial fossa. In addition, he sustained a lacerated spleen and minor soft tissue injuries. The driver of vehicle #2 (28 year-old female) was not wearing the available, active, three-point, lap and shoulder belt and sustained, according to the driver and her medical records, moderate injuries which included: bilateral bimalleolar ankle fractures, a right dislocated ankle, two lacerations to the left lower leg, and minor soft tissue injuries.

| Motor Vehicle Traffic Accident Air Bag Deployment Injury Severity | | General Public | | |
|--|-----------------------|----------------|------------------|-----------|
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| Unclassified | Unclassified | | 120 | \$7,500 |

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Reproduction of completed page authorized

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TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 94-09

FLEET - PRIVATE VEHICLE LOCATION - KENTUCKY

SUMMARY

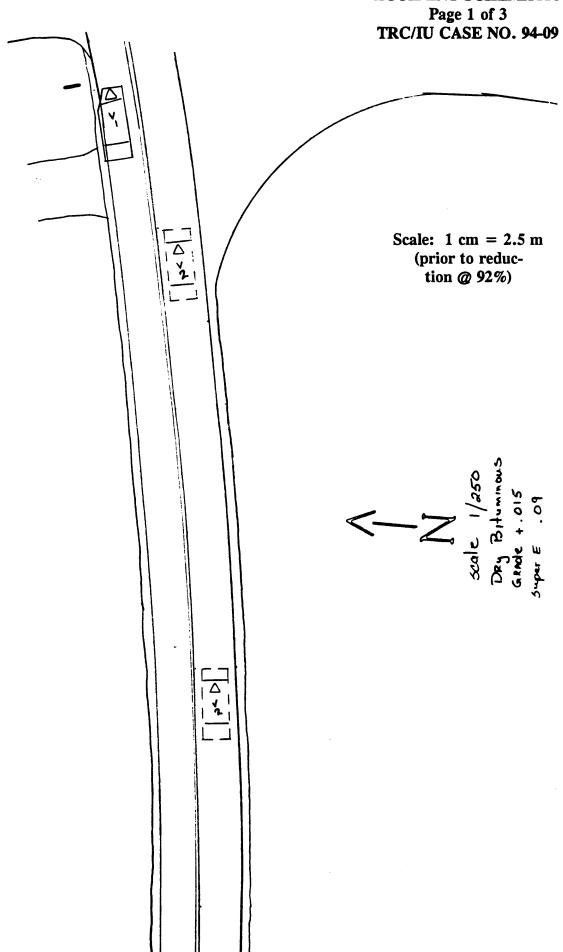
This report concerns a motor vehicle crash involving an air bag equipped 1991 Chevrolet Corsica and a 1988 Chevrolet C-1500 pickup truck occurring on 1994 at 1994 at 1995 According to Kentucky on a State road.

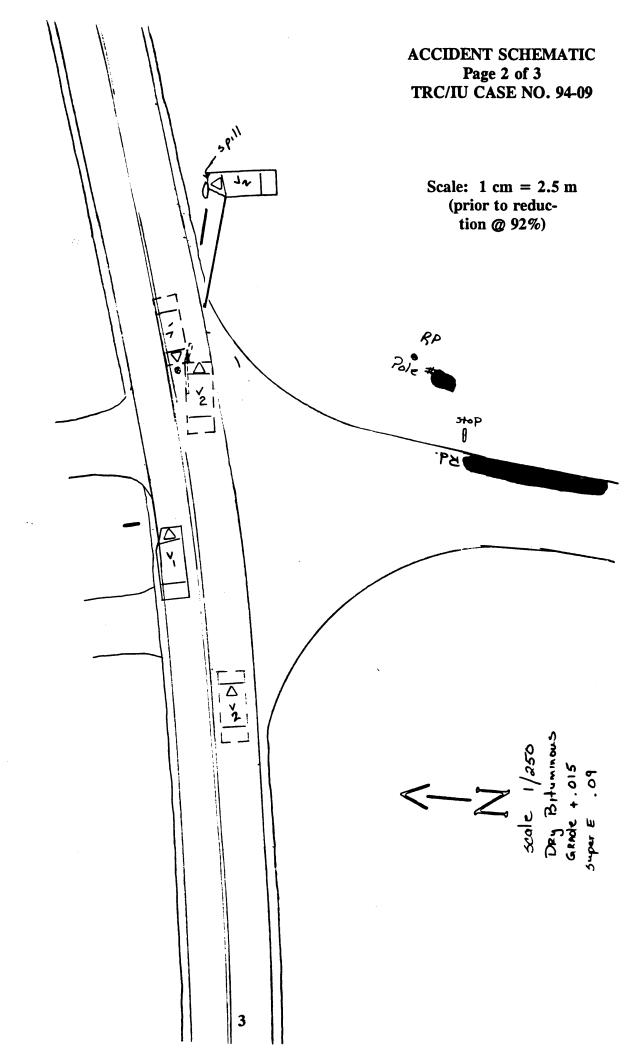
The Corsica was traveling west in the westbound lane of a two-lane, undivided roadway when it impacted the C-1500 pickup which was traveling east in the eastbound lane of the same two-lane, undivided roadway. The Corsica rotated approximately 180 degrees counterclockwise after impact and came to rest on the north shoulder heading east. The C-1500 pickup rotated approximately 90 degrees counterclockwise after impact and came to rest in the roadside grass on the south side of the roadway heading north.

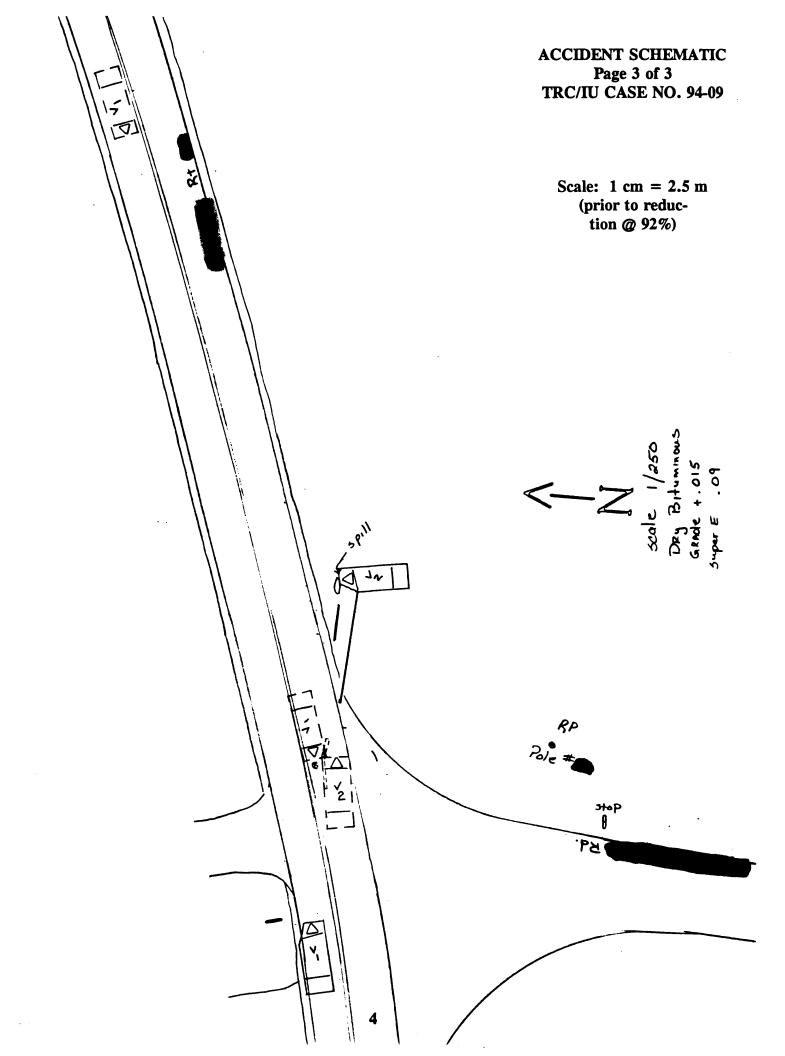
The front left of the Corsica impacted the front left of the C-1500 pickup. The CDCs were determined to be: 12-FLAE-7 for the Corsica and 12-FYEW-5 for the C-1500. The CRASHPC reconstruction program, damage and trajectory algorithm, was used on the impact (highest severity) to the Corsica. The Total, Longitudinal, and Lateral Delta Vs are respectively: 35 k.p.h. (22 m.p.h.), -35 k.p.h. (-22 m.p.h.), and +0 k.p.h. (+0 m.p.h).

The 1991 Chevrolet Corsica was equipped with a driver supplemental restraint system (air bag) which deployed as a result of the frontal impact. The driver of the case vehicle (23 year-old male) was also restrained by the available, active, three-point, lap and shoulder belt and sustained, according to his medical records, fatal head injuries which included: a concussion; bilateral subarachnoid hemorrhages; left depressed skull fracture with left cerebral contusions and laceration; intraventricular hemorrhage in the third ventricle; and a basilar skull fracture to the posterior cranial fossa. In addition, he sustained a lacerated spleen and minor soft tissue injuries. The driver of the Corsica was listed on the Police Accident Report as sustaining a "K" (fatal) injury as a result of this crash. The driver of the C-1500 pickup (28 year-old female) was not wearing the available, active, three-point, lap and shoulder belt and sustained, according to her medical records, moderate injuries which included: bilateral bimalleolar ankle fractures, a right dislocated ankle, two lacerations to the left lower leg, and minor soft tissue injuries. The driver of vehicle #2 was listed on the Police Accident Report as sustaining an "A" (incapacitating) injury as a result of this crash.

ACCIDENT SCHEMATIC







TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 94-09

FLEET - PRIVATE VEHICLE LOCATION KENTUCKY

ACCIDENT DATA

Location/Street: State Road near an intersection with a

County Road

City/Township: County, near Ken-

tucky

Area/Type: Rural/agricultural

Accident Date/Time: 1994, @ a.m.

Investigating Police Agency: County Sheriff Department

Accident Type: Car / Pickup - head-on, offset left

Occupant Injury Severity

(air bag vehicle): Concussion, unresponsive (AIS-5)

AMBIENT CONDITIONS

Light Conditions: Daylight

Weather Condition: Clear

Precipitation: Dry

Road Surface: Asphalt

ROADWAY

| | <u>Case Vehicle</u> | <u>Vehicle #2</u> |
|-------------------------|---------------------------------|---------------------------------|
| Location: | State road | State road |
| Number of Travel Lanes: | 2-lanes, undivided | 2-lanes, undivided |
| Width: | 3.0 meters (9.8 feet) | 3.3 meters (10.8 feet) |
| Surface Type: | Asphalt | Asphalt |
| Median: | None | None |
| Shoulders: | 0.6 meters (2.0 feet) | 0.5 meters (1.6 feet) |
| Vertical alignment: | 9 % grade, positive to the west | 4 % grade, positive to the east |

ROADWAY (CONT'D.)

<u>Case Vehicle #2</u>

Horizontal Alignment: Curve right Curve left

Estimated Coefficient of

Friction: 0.75 0.75

Traffic Density: Light Light

TRAFFIC CONTROLS

Case Vehicle <u>Vehicle #2</u>

Signals: None None

Signs: Curve warning sign Curve warning sign

Markings: Solid yellow center line Solid yellow center line

for westbound traffic and broken yellow center line for eastbound

for eastbound traffic and broken yellow center line for westbound

traffic traffic

Speed Limit: 89 k.p.h. (55 m.p.h.) 89 k.p.h. (55 m.p.h.)

VEHICLES

Case Vehicle Vehicle #2

Year: 1991 1988

Make: Chevrolet Chevrolet

Model: Corsica LT C-1500

Body Type: 4-door sedan Pickup, one-half ton

V.I.N. 1G1LT53G2MY----- 1GCDC14ZXJZ-----

Color: Blue Red

Mileage: 73,139 km (45,446 miles) 118,406 kilometers

(73,574 miles)

Engine: 2.2 liters, 4 cylinders 4.3 liters, V6

Transmission: 3-speed, automatic 5-speed, manual

Steering: Power-assisted, rack- Power-assisted, worm-

and-pinion and-roller

VEHICLES (CONT'D.)

| , , | | | |
|--|--|--|--|
| | Case Vehicle | Vehicle #2 | |
| Brakes: | Power-assisted, 4-wheel disc brakes | Power-assisted, 4-wheel hydraulic | |
| Padding: | Steering wheel and hub, sunvisors, dash, "A"-pillars, and side door surfaces | Steering wheel, sunvisors, dash, "A"-pillars, and side door surfaces | |
| Active Restraints: | 3-point, manual, lap and shoulder belts in front and rear outboard seat- ing positions; lap belt only at rear center posi- tion | 3-point, manual, lap and shoulder belts in front outboard seating posi- tion; lap belt only at front center position | |
| Passive Restraints: | Factory installed driver supplemental restraint system (air bag) | None | |
| Defects: | None | None | |
| Fleet: | Private vehicle | Private vehicle | |
| Tow status: | Towed due to damage | Towed due to damage | |
| VEHICLE DAMAGE | | | |
| EXTERIOR | Case Vehicle | Vehicle #2 | |
| Deployment Impact | | | |
| Event number: | One | One | |
| Object Struck: | Vehicle #2 | Case Vehicle | |
| Damage location Damaged Plane: Vertical Location | Front | Front | |
| On Plane: | Bumper level | Bumper level | |
| Direct Begins: | At left bumper corner | At left bumper corner | |
| Length Direct: | 40 cm (15.7 in) | 56 cm (22.0 in) | |
| Field L: | 132 cm (52.0 in) | 170 cm (66.9 in) | |
| C ₁ : | 121 cm (47.6 in) 32 cm (12.6 in) | 81 cm (31.9 in) 33 cm (13.0 in) | |
| C ₂ : C ₃ : | 22 cm (8.7 in) | 18 cm (7.1 in) | |
| C ₄ : | 14 cm (5.5 in) | 3 cm (1.2 in) | |
| C ₄ : C ₅ : | 4 cm (1.6 in) | 0 cm (0.0 in) | |
| C ₆ : | 1 cm (0.4 in) | 0 cm (0.0 in) | |
| D: | -46 cm (-18.1 in) | -57 cm (-22.4 in) | |

VEHICLE DAMAGE (CONT'D.)

| EXTERIOR (Cont'd.) | Case Vehicle | Vehicle #2 |
|-------------------------------------|--|---|
| Deployment Impact (Cont'd.) | | |
| Maximum Crush: Location: | 218 cm (85.8 in) C ₁ | 81 cm (31.9 in) C ₁ |
| CDC: | 12-FLAE-7 | 12-FYEW-5 |
| Damaged Components: | Bumper, grille, left front fender and wheel assem- bly, left "A"-pillar, roof, left doors, and hood | Bumper, grille, left front fender and wheel assem- bly, roof, left doors, and hood |
| <u>INTERIOR</u> | | |
| Damaged Components: | Windshield, roof, "A"- pillar, driver door | Steering wheel, toepan, driver's door, left lower dash |
| Other Evidence of Occupant Contact: | Lower left dash cracked | Lower left dash, steering wheel |
| Manual Restraint System Failures: | None | None |
| Seat Performance Failures: | None | None |
| REPAIR | | |
| Cost Estimate: | Totalled | Totalled |

VEHICLE VELOCITY ESTIMATES'

| Highest Delta "V" | Case Vehicle | Vehicle #2 |
|-------------------------|------------------------|------------------------|
| Reconstruction Program: | CRASH3PC | CRASH3PC |
| Program Algorithm: | Damage only | Damage only |
| Travel Speed: | 81 k.p.h. (50 m.p.h.) | 72 k.p.h. (45 m.p.h.) |
| Total Delta "V": | 35 k.p.h. (22 m.p.h.) | 26 k.p.h. (16 m.p.h.) |
| | | |

Because of the fairly narrow corner engagement, this reconstruction and the resultant velocity estimates can be considered "at best" a borderline reconstruction. It is this contractor's opinion that the results are too low. Another factor which affects the results is that the CRASH3PC program measures the velocity change at the center of the vehicle. In a crash involving a ssevere off-set, such as this crash, it is this contractor's opinion that the Longitudinal Delta "V" at the front outboard seating positions can vary significantly from the value at the center of the vehicle.

VEHICLE VELOCITY ESTIMATES (CONT'D.)

Highest Delta "V" (Cont'd.) Case Vehicle *2

Longitudinal Delta "V": -35 k.p.h. (-22 m.p.h.) -25 k.p.h. (-16 m.p.h.)

Lateral Delta "V": 0 k.p.h. (0 m.p.h.) + 5 k.p.h. (+ 3 m.p.h.)

COLLISION SEQUENCE

Pre-Crash:

The case vehicle (Corsica) was traveling west in the westbound lane of a two-lane, undivided State road and was traversing a nine percent positive grade into a right-hand curve. Vehicle #2 (C-1500 pickup) was traveling east in the eastbound lane of the same two-lane, undivided State road and was cresting a hill in a left-hand curve, having just traversed a four percent positive grade. Based on the physical evidence at the scene and the interview with the driver of vehicle #2, the driver of the case vehicle made no pre-crash avoidance maneuvers. The case vehicle, for whatever reason, failed to negotiate the right-hand curve and continued straight ahead, crossing into the on-coming eastbound lane, prior to impact. Based on the physical evidence at the scene and the interview with the driver of vehicle #2, she attempted to brake and steer towards her right. Vehicle #2, with its brakes locked, continued essentially straight ahead prior to impact. The crash occurred in the curved, eastbound lane, just east of the hillcrest.

Crash:

The front left corner of the case vehicle impacted the front left corner of the vehicle #2 causing the case vehicle's driver side supplemental restraint (air bag) to deploy. The hood of vehicle #2 contacted the case vehicle's left "A"-pillar and roof. The case vehicle rotated approximately 180 degrees counterclockwise after impact and came to rest on the north shoulder heading east. Vehicle #2 rotated approximately 90 degrees counterclockwise after impact and came to rest in the roadside grass on the south side of the roadway heading north.

Post-Crash:

Occupants:

The driver of the case vehicle remained inside the vehicle at final rest and was found, according to the Police and on-scene witnesses, belted leaning back to the right. He was unconscious and was unable, because of his injuries, to exit the case vehicle.

Police:

The investigating police agency was notified of the accident within three minutes and arrived on-scene within seven minutes. Traffic control procedures were established and emergency medical, fire, and towing services were called to assist.

COLLISION SEQUENCE (CONT'D.)

Rescue:

The driver was transported by ambulance to a medical facility where he was treated and transported by helicopter to a trauma center where he was pronounced dead.

Removal:

Following the police investigation, the case vehicle was towed from the

scene.

HUMAN FACTORS/OCCUPANT DATA

| | Case Vehicle | Vehicle #2 |
|--------------------------------|---|--|
| Driver: | 23 year-old male | 28 year-old female |
| Height: | 188 cm (74 in) | 160 cm (63 in) |
| Weight: | 77 kg (170 lbs) | 75 kg (165 lbs) |
| Occupation: | Student | Student/homemaker |
| Active Restraint System/Usage: | 3-point lap and shoul- der/used | 3-point lap and shoul- der/not used |
| Usage Source: | Police Accident Report, witnesses | Driver |
| Eye glasses/contacts: | Eye glasses | None |
| Vehicle Familiarity: | Fairly familiar, Grand- father's vehicle | Very familiar |
| Route Familiarity: | Very familiar | Daily, during the school year |
| Trip Plan: | Driving home from work | Driving to school |
| Manner of Leaving Scene: | Ambulance | Ambulance |
| Type of Medical Treatment: | Emergency room and lifeflight | Hospitalized |

CASE VEHICLE DRIVER INJURIES

| Description of Injury | A.I.S. | Source of Data | Inju ry <u>Mechanism</u> | <u>Certainty</u> |
|--|------------|-------------------|--|------------------|
| Concussion, unconscious, unresponsive to verbal or painful stimuli | 160824.5,0 | 3 | "B"-pillar, left | {Probable} |

CASE VEHICLE DRIVER INJURIES (CONT'D.)

| Description of Injury | <u>A.I.S.</u> | Source of Data | Injury <u>Mechanism</u> | <u>Certainty</u> |
|--|---------------|-------------------|--|------------------|
| Cerebral contusions, infe- rior portions of left frontal, temporal, and parietal lobes | 140612.3,2 | 1 | "B"-pillar, left | {Probable} |
| Intraventricular hemor- rhage in left and right horns of third ventricle | 140678.4,9 | 1 | "B"-pillar, left | {Probable} |
| Subarachnoid hemorrhage, lateral right hemi- sphere | 140684.3,1 | 1 | "B"-pillar, left | {Probable} |
| Subarachnoid hemorrhage, lateral left hemisphere | 140684.3,2 | 1 | "B"-pillar, left | {Probable} |
| Laceration left parietal- temporal lobes | 140688.4,2 | 1 | "B"-pillar, left | {Probable} |
| Laceration in hilum of spleen {moderate} | 544224.3,2 | 1 | Left door arm- rest | {Probable} |
| Fracture, open, depressed, left parietal-occipital region {unknown if vault or basilar} | 150404.3,2 | 1 | "B"-pillar, left | {Probable} |
| Fracture, basilar, occipital portion of posterior cranial fossa | 150200.3,8 | 1 | "D"-ring por- tion of left "B"- pillar | {Probable} |
| Abrasion lower lip | 290202.1,8 | 1 | Air bag | {Certain} |
| Contusions face, unspeci- fied location | 290402.1,9 | 6 | Air bag | {Probable} |
| Contusions left chest | 490402.1,2 | 6 | Torso belt | {Probable} |

VEHICLE #2 DRIVER INJURIES

| Description of Injury | <u>A.I.S.</u> | Source of Data | Injury <u>Mechanism</u> | Certainty |
|--|---------------|----------------|----------------------------|-----------|
| Bimalleolar fractures right anklecomminuted fibula at diaphyse- al/metaphyseal junction and comminuted medi- al malleolus | 850210.2,1 | 2 | Toe pan | {Certain} |
| Dislocation medial right ankle—slight overriding of distal tibia and talus | 850210.2,1 | 2 | Toe pan | {Certain} |

VEHICLE #2 DRIVER INJURIES (CONT'D.)

| Description of Injury | <u>A.I.S.</u> | Source of Data | Injury <u>Mechanism</u> | <u>Certainty</u> |
|---|---------------|----------------|----------------------------|------------------|
| Bimalleolar fractures left ankle—slightly displaced medial and nondis- placed lateral malleoli | 851612.2,2 | 2 | Toe pan | {Certain} |
| Avulsive laceration left shin/calf involving the muscle belly in the anterior compartment | 840600.2,2 | 2 | Foot controls | {Probable} |
| Laceration left proximal shin—overlying tibial tubercle | 890602.1,2 | 2 | Left dash | {Certain} |
| Abrasion left knee | 890202.1,2 | 3 | Left dash | {Certain} |
| Abrasions right knee and lower extremity | 890202.1,1 | 3 | Left dash | {Certain} |
| Lacerations {scratches} right lower extremity | 890600.1,1 | 3 | Left dash | {Probable} |

DRIVER KINEMATICS

The initial posture of the case vehicle driver is not known at any point along the pre-crash (i.e., as he was proceding in a westerly direction in the westbound lane up the nine percent positive grade and into the right-hand curve) or "at crash" travel path (across the centerline and into the eastbound lane). Based on the lack of physical evidence present at the scene pertaining to the case vehicle (i.e., no pre-impact skidmarks) and the driver of vehicle #2's observation that she thought, at first, that the case vehicle was going to turn left (southward) onto the intersecting roadway, the case vehicle driver most likely made no or little pre-crash avoidance maneuvers. It is possible that immediately prior to the crash, the case vehicle driver fell asleep, or nodded-off momentarily, because he had just finished working an eight-hour shift (i.e., 12 a.m. - 8 a.m.). It is also possible that, just prior to the impact sequence, the driver might have been slumped forward towards the steering wheel and air bag module. Based on the surrogate interview with the driver's mother, the driver most likely had his hands on the steering wheel and his feet in the toepan area.

Based on the vehicle and scene inspections and occupant kinematic principles, the case vehicle's impact with the vehicle #2 deployed the driver's side supplemental restraint system (air bag) and caused the driver to move forward loading the torso portion of his active, three-point lap and shoulder belt. The driver's forward movement, however, was restricted because: (1) the air bag deployed and (2) the torso portion of the driver's active belt system locked up, preventing him from contacting the steering wheel; the steering wheel rim showed no evidence of contact or deformation. Due to the driver's use of his available restraints, the windshield and windshield header area were not contacted. The case

DRIVER KINEMATICS (CONT'D.)

vehicle's driver restraints (i.e., the air bag and the belts) appear to have performed as designed by absorbing as much energy as possible, specifically in the thoracic area.

Based on the vehicle and scene inspections, the case vehicle's impact with vehicle #2 not only deployed the driver's side air bag but most likely sent the driver forward and leftward towards the intruding left "A"-pillar1, roof siderail, and, most likely, side interior door surface. Unfortunately, the amount of intrusion (which was significant) to the left "A"pillar, roof, siderail, door panel, and "B"-pillar could not be determined because of the damage caused during the driver's extraction. The intrusion of the left door's armrest most likely caused the spleen laceration. However, based on the driver's extensive, leftand-rear, head injuries (i.e., skull fractures and brain lesions), it is most likely that the left parietal-occipital area of the driver's head struck the left "B"-pillar and/or rearward roof siderail, rather than the left "A"-pillar and/or forward roof siderail. Simultaneously, the occipital area of the driver's head most likely struck the "D"-ring on the left "B"-pillar causing the occipital laceration and skull fracture to the driver's posterior cranial fossa. If the driver's head had slumped forward because of drowsiness, then the energy generated by the air bag's deployment could have propelled the driver rearward. In addition, the counterclockwise vehicle rotation generated by the case vehicle's impact with vehicle #2, would have caused the driver's head to rebound rearward and toward the left "B"-pillar. Certainly the driver's head directly contact a rigid structural support. The forensic pathologist who performed the autopsy made the following conclusion: "A pattern of contusions within the brain is suggestive of an axial movement of the head and brain in a front to back motion with subsequent contusion of the undersurface of the brain. The pattern of depressed indented skull fracture is suggestive of a linear portion of the inner surface of the vehicle impacting with the side of this young man's head"; see page 100R.

Based on the vehicle and scene inspection and the blood present on the driver's seatback, the driver moved to his right as the case vehicle completed its approximate 180 degree counterclockwise rotation to final rest. At final rest—based on police reported witness accounts and on-site emergency medical records, the case vehicle driver was leaning back against his seatback with his head tilted to the right and blood was coming from his nose, mouth, and ears. Furthermore, based on the scene inspection and the on-site police photographs², the case vehicle was heading east at final rest.

AIR BAG SYSTEM DRIVER AIR BAG

Deployment Threshold: 14-24 k.p.h. (9-15 m.p.h.)

Airbag Diameter (seam-to-seam, deflated):

63 centimeters (24.8 inches)

¹ See SELECTED PHOTOGRAPHS, Photographs # 42 and # 43, pages 21 and 22, which show the direct contact to the case vehicle's left "A"-pillar from vehicle #2.

² See SELECTED PHOTOGRAPHS, Photographs # 09 and # 11, pages 5 and 6.

TRC/IU ON-SITE AIR BAG INVESTIGATION

AIR BAG SYSTEM

DRIVER AIR BAG

Number of Vent Holes:

Two

Vent Hole Diameter:

2 centimeters (0.8 inches)

Vent Hole Clock Positions:

3 and 9 o'clock

Generant Residue:

Unknown, none reported by police or found during vehicle inspection

ACCIDENT COLLISION MEASUREMENT TABLE



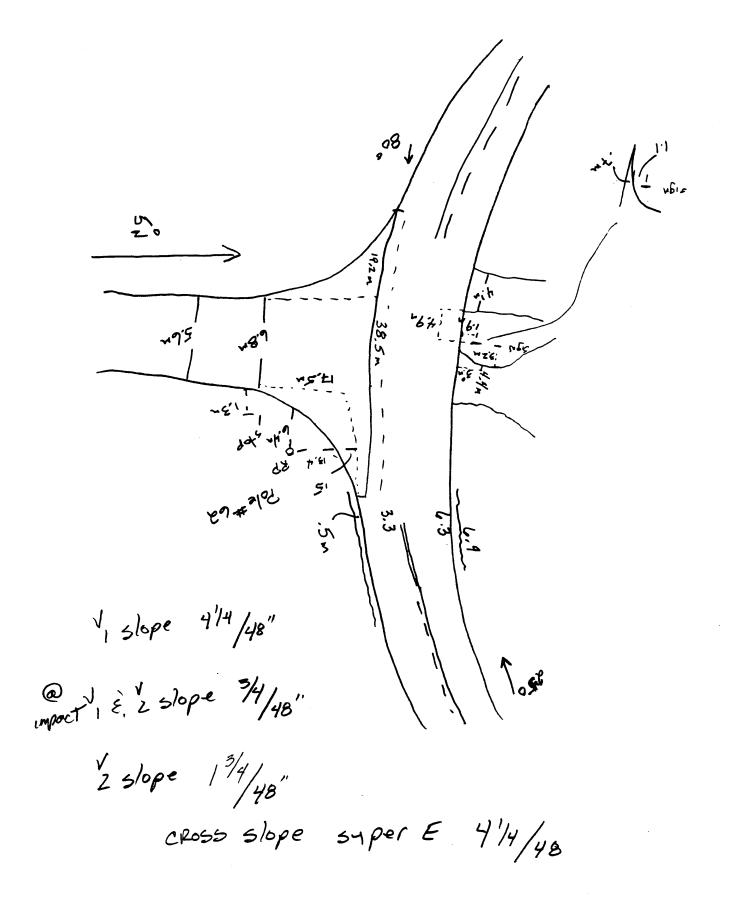
U.S. Department of Transportation National Highway Traffic Safety Administration

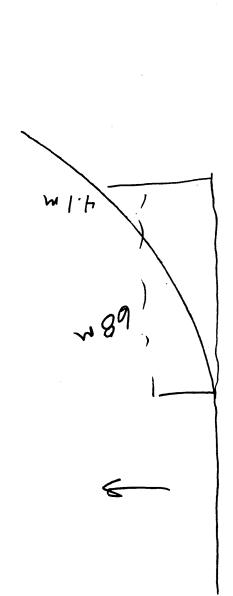
ACCIDENT COLLISION MEASUREMENT TABLE

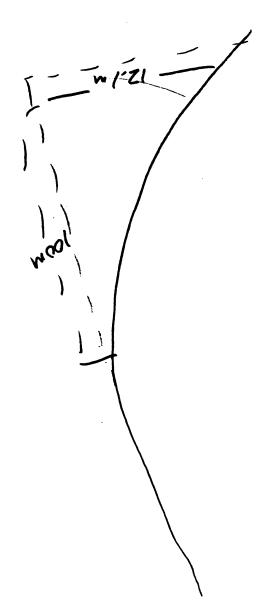
NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| Primary Sampling Unit Number | <u>5</u> | Case N | lumber – St | ratum 9 | 409 |
|--|---|--|---|---|--------------------|
| ACCIDENT COLL LEVEL I PHYSICAL EVIDENCE ABSENT To be accomplished when there is no physical evidence present at the scene: approximate vehicle orientation at impact and final rest spelicable road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, etc.) applicable traffic controls (e.g., speed limit) north arrow placed on diagram sketch required LEVEL II PHYSICAL EVIDENCE PRESENT In addition to the level I tasks noted above, | physical evidence document reference document reference cat the scene scaled docume induced physic scaled docume objects contact roadway surfar applicable road grade measure roadways and initiation scaled represerence pre-impact, impupon either: | /EL II (Cont'd) b is present: rence point and reference physical features present entation of all accident hal evidence entation of all roadside ted tee type and condition of | Heading And Surface Type Surface Condition Grade (v/h) Measurement (between in and final reading for the surface (v/h) Measurement (at location) | CRASH DAT VEH. #1 gle 250 D12-y nt 1% nt N/A of | FA VEH. #2 VEH. #3 |
| the following must be accomplished when | | ucted accident dynamics | rollover initia | | |
| Reference Point: Utility P. 5 W/COENER | ble i | Reference line: | | EDGE | ot |
| ltem | | Distance and Direct from Reference Po | | Distance ar | |
| | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | |
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| | ltem | Distance and Direction from Reference Point | Distance and Direction from Reference Line |
|---|--|---|--|
| | | | |
| | Start of SKID LF | 4.1 w | 2 N |
| / | Start of Gouge LF | 1,7w | 1.8 N |
| 1 | POI | 2 ω | 2.5N |
| 1 | END of Gouge LF | 1.2w | 1.62 |
| | END of SK.D LF | . 5 w | 1.37 |
| | | | |
| | ZFRP LF | 93€ | 33€ |
| | V, G/ASS | | |
| 1 | 2 ND Gouse Start LF | 1.8€ | .2 5 |
| | 2 FRP LF J GlASS 2 ND Gouge Start LF "I" END LF | 9 3E | 3.35 |
| | BAT. RAdiates Pill | 9.4 - 10.5 € | 1.95 - 2.25 |
| | | 6.3£ -8.6€ | .9 1.95 |
| 1 | UNK Gouge MARK END | 276 | 1,9 |
| 1 | BEG | 2 € | 1.6 |
| | | | |
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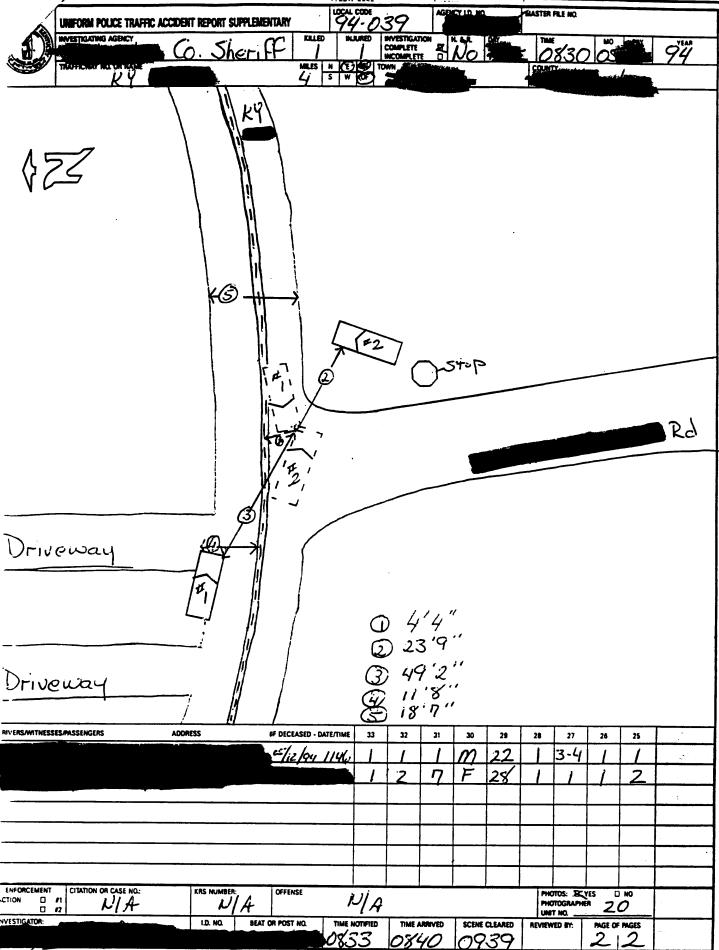




Appendix A:

POLICE ACCIDENT REPORT

| | | INVESTIGATING AG | ENCY . | C | Sherif | C | ED INJU | COM | TIGATION LETE | 3 1 | تعلمه ۱ | W. | | | TAME | MQ | DIY | rean H |
|-----------------|------------------------|-------------------|-------------------------|--------------------|--------------------------------|-----------------|--------------------------|------------|--------------------|--------------------|-----------------|----------|----------|---------------------|----------|-----------------|-----------|-----------|
| | | TRAFFICWAY NO. O | NAME K | Y | meri | MLES Z/ | 1 (2) | IN TOWN | WLETE | 012 | 01 | | CO | UND | | | | <u> </u> |
| | | CTION | - K | | ETWEEN STREETS. | | ONE MAY | AMP (66) | FROM _ | nciosar) popo | Si Carrier | | FT. | N Par | | 1100 | 4 | " |
| + | KY UN | T 1 | | | REMOVED TO | Ka | NO OCCU- | UNI. | T 2 ■ | | | | ID MI. | S (| | | 10 000 | », 16 |
| + | | AS LIC. NO. | | STATE | RESTRICTION NON-RESTRICTION | | COMPLIANCE | OPERATOR | IS LIC. NO | | | | ME | MESTIMICTI | ON (| CODE | COMPLI | MCE 17 |
| | OPERATO | N-LAST NAME | | KY I | | | res-ex no c | | | ME | | | YY | MOM-MES I | MJ | | YES EX | 28 1 |
| 2 2 | STREET | IOTE NAME | | | | CODE | | STREET N | Q & NAME | | | | | | | CODE | | |
| | CITY | | | L. | STATE | ZIP CO | DE. | ату | | | \ | b | | STA | TE | ZIP C | 301 | 19 |
| ::: | OWNER- | -LAST NAME | | ky | FIRST | | <u> 1.12 4</u> | OWNER- | ast name | | | K | <u>Y</u> | FIR | ST | | | C. 50 |
| /A | OWNER- | ADDRESS | | | | 1. | | OWNER-A | DOMESS | | | | | | | 1 | <u> </u> | 7 |
| *** | MOTOR | CARRIER: NAME | & ADDRESS | | | K | 4- | MOTOR | CARRIER: | NAME & | ADDR | ESS | | | | V | 4 | |
| 4 | VEH VR | Chev | CG/ | 4d 5 | KYI | TRATION NO. | YEAR 95 | VER YR | Che | - 1 - | 00EL 'S [| | PU | STATE | | STRATION | | YEAR N/22 |
| | VEH. INS | | | | | ORESS | | VEH. INS. | | | | | | | ADDRE | | | 7" |
| : · | PIRE YES NO 43 | | D EST TRAVEL BETWEEN | SPEED LOV | K SUBCOM | | ull size 🎜 Itermed. 🗆 | I | YES | TURNED D SEK | BETW | EEN LL | SAND S | حية | COMPAC | | FULL SI | |
| 2 | VEH. ID | | 3621 | 77 Y | | | | VEH. ID NO | | 14 | - X | JŽ | 7 | | | | | 34 |
| _ | HAZARO CARGO | OUS YES CARC | 30 TY | PE LRGOL | | NUMBER OF | | | NO D | | | TYPE | , ~ | \ | | NUMBER | | 2 |
| 16 | TRUCK I | ENGTH IN. | WIDTH FT. IN. | | E UNIT | NO AXLES | | TRUCK LE | _ IN | 9-1 | שנסו | IN. | SING | LEVINIT BINATION | <i>l</i> | NO. | | |
| ; | | DAMAGED UNIT N | OTHER PROP. NO DAMAGE | 1 | DAMAGE 1 2 3 4 5 | OTHER P | ROP. 1 | , | AMAGED UI | 4 0 | THER PR | _ | 2 | 3 4 | AGE TO T | OTHER NO DAI | PROP. | 1 4 |
| 1°C | | 10° 9 5 | MINOR MODERATE | $\frac{1}{3}$ | | MINOR MODERA | 3 TE 4 | | 707) SETTEM 10 | ·]•[<u>·</u> | NOOR NODERAT | 3 E 4 | | □ | 11_6 | MINOR MODER | | 3 37 |
| 10 | INDICATE | NORTH BY ARROW | SEVERE | (3) | , | SEVERE | 5 | | DESCRIPTION | | EVERE | _® *2 | -st | ate | . d | SEVERE +L | | _5 |
| 14 | | | | | | | | uni | | | low | الا | C. | 055 | ed | 0 | کن ک | a. b.>- |
| 74 | | | | | | | | to | ter riq | ht | ne Sì | de de | 9 | $\overline{}$ | cad | رجورا | <u> </u> | over |
| | | | | | | | | hit | Th. | 1+ == | 2 | he | ad· | -O.D. | | | | |
| | | | | | | | | 7*1 | 2 (1 | nit | # | ~· | . | | 0 | ر ر | en to | r-line |
| | | | | | | | | | | | | | ~~~ | | o ve | | | |
| | | | | | | | | | | | | | | | | | | |
| •••• | | | | | | | | | | | | | | | | | | |
| PROPER | TY DAMAS | GE-OTHER THAN VEH | HICLES ON | WNERADDRESS | | NIA | • | | | | EMS N | OTIFIED | EMS | ARRIVED C84 | | TIME AT | 117 | |
| 1ST AIC | GIVEN BY | : | Ambi | ance | URED OR DECEAS | | m.bul | 0 - 616 | <u>L</u> | REMOVED | | | | osp | 1-1 | | | |
| C T d E S | | OPER. #1 | PED. D TY | PE BREATH EN HUMBO | D TESTED DRU | S N/A | TAKEN BY | -cn c e | n/ | <u></u> | | | | | | ESULTS | | |
| AT | | OPER. #2 D | OTHER TE | ADDR | | OHOL [24 | IF DECEASED | | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 28 | 25 | |
| | | | | | | | 191 | 1146 | | 2 | 7 | m F | 22 28 | | 3/4 | 1 | 2 | |
| | | 7 | | | | | | | | | | | | | | · . | | |
| ENEO | RCEMENT | CITATION OR,C | ASE NO | l voc . | WWBER: | OFFENSE | | d i i | | | | | | PHOTOS: | <u></u> | YES | D NO | |
| ACTION | D #1 | | ASE NO | | NA | | | NA | | | T 2 | <u></u> | | PHOTOGRAUNIT NO. | APHER | 20 | | |
| INVEST | GATOR | | | | .D. NO. BE | IT OR POST NO | | NOTIFIED | DIME A | | | 1.39 | ED A | EVIEWED | BY: | MGE OF 1 | AGES 2 | |



Appendix B:

CRASHPC PROGRAM RESULTS

U.S. Department of Transportation

CRASHPC PROGRAM SUMMARY

National Highway Traffic Safety Administration (All Measurements In Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| Identifying Title / Primary Sampling Unit | Gase NoStratum | Accident Event Sequence No. Date (Month, day, year) of Run |
|--|---|---|
| CRASHPC Vehicle Id Vehicle 1 Vehicle 2 | 91' Cheuro 88' Cheuro Year M | olet $C-1500$ D/u 2 NASS Ven. No. |
| | GENERAL | INFORMATION |
| 1 | VEHICLE I | VEHICLE 2 |
| Size | 3 | Size |
| Weight | n - 1 2 7 3 kg | Weight $1680 + 601 + = 1741 \text{ kg}$ |
| Curb Occupant(s) | $\frac{O}{Cargo} = \frac{1}{2} \frac{2}{4} + \frac{3}{5} $ kg | Curb Occupant(s) Cargo |
| CDC _ | 12FLAE7 | 12FYEW3 |
| PDOF (-180 to +180 | o) | PDOF (-180 to +180) $\triangle $ $\perp \triangle$ ° |
| Stiffness | 7 | _ Stiffness <u>S</u> |
| | SCENE | INFORMATION |
| Rest and Impact Pos | itions [] No, Go To Damage | Information [/ Yes |
| I was a second of the second o | VEHICLE 1 | VEHICLE 2 |
| 5 | v 15 2- | n Rest X — 9.9 m |
| Rest Position | $\frac{x}{y} = \frac{15}{5} \cdot \frac{3}{5}$ | Position \hat{Y} $\frac{1}{2}$ $\frac{7}{2}$ m |
| | PSI 184" | $\frac{1}{9}$ PSI $\frac{1}{9}$ $\frac{1}{8}$ $\frac{1}{9}$ |
| | | 4/- |
| Impact Position | x | Impact $X = \frac{7}{1} \cdot \frac{7}{4} \text{ m}$ |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | PSI - 18 9 |
| Slip Angle(-180 to + | | |
| | | CLE MOTION |
| Sustained Contact | | |
| i e | VEHICLE 1 | VEHICLE 2 |
| Vehicle Rotation | []No [≯]Yes | Vehicle Rotation [] No 1/1 Yes |
| 1 | efore Rest 🖂 No [] Yes | |
| E id of Rotation Position | X n | End of Rotation X m |
| Position | Y | Y m |
| | PSI | PSI ° |
| Curved Path | [X] No | Curved Path [X] No [] Yes |
| Point on Path | · | Point on Path |
| x | m · Y r | n X m Y m |
| Rotation Direction | I] None [] CW [X] CCW | Rotation Direction [] None [] CW [×] CCW |
| Rotation > 360° | [╳∫No []Yes | Rotation > 360° [X] No [] Yes |

| Coefficient of Friction & Rolling Resistance Option | Trajectory Data [] No [X] Yes |
|---|--|
| | 1.2,00001, 0000 1,71,700 |
| | If No, Go To Damage Information |
| Vehicle 1 Rolling Resistance | Vehicle 1 Steer Angles |
| LF / . RF . 5 / | LFO ° RF 5 ° ° C |
| LF 1 RF <u>5 /</u> LR <u>5 /</u> RR <u>5 /</u> | Ln |
| | Vehicle 2 Steer Angles |
| Vehicle 2 Rolling Resistance | LF 6 5 ° RF 5 ° LR 0 ° RR 0 ° |
| LF 1 RF <u>8 5</u> LR <u>9 0</u> RR <u>9 0</u> | LR <u>O</u> ° RR <u>O</u> ° |
| LR <u>9</u> <u>D</u> RR <u>9</u> <u>B</u> | |
| | Terrain Boundary [] No [X] Yes |
| | First Point |
| | X m Y m |
| | Second Point |
| | Xm Ym |
| | Secondary Coefficient of Friction |
| DAMAGE INFO | DRAATION |
| | DRIVIATION |
| VEHICLE 1 | VEHICLE 2 |
| Damage Length L 132 cm | Damage Length L / 7 O cm |
| Crush Depths C, / 2 / cm | Crush Depths C, & [cm |
| C, <u>3</u> 2 cm | c ₂ <u>33</u> cm |
| C ₃ cm | C ₃ |
| C ₄ | C ₄ 3 cm |
| C ₆ | С _Б |
| C ₆ | C ₆ <u>O</u> cm |
| Damage Offset D 🖒 4 6 cm | Damage Offset D 🕹 <u>5</u> 7 cm |
| IF THIS COMMON IMPACT WAS WITH A MOTOR VEHICLE M | OT IN TRANSPORT, FILL IN THE INFORMATION BELOW. |
| Model Year:T | The Weight, CDC, Scene Data and Damage Information |
| 1 | or this vehicle should be recorded above. |
| | |
| Model: | |
| Model: | |

WARNING

SEPARATION VELOCITIES ALONG PDOF ARE NOT COMPATIBLE ACCORDING TO ASSUMPTION OF A COMMON VELOCITY AT THE DAMAGE AREA CENTROIDS.

SUMMARY OF CRASHPC RESULTS USING DAMAGE

P10-9409

| | SPEED CHANGE (DAMAGE) | SPEED CHANGE (LINEAR MOMENTUM AND SPINOUT) | IMPACT SPEED (LINEAR MOMENTUM AND SPINGUT) |
|---------------------|--------------------------|--|--|
| VEHICLE #1 | | TALISTON (DA MENI) | militaria / Elo MEUN |
| TOTAL 35 | KPH (22 MPH) | 34 KPH (21 MPH) | 81 KPH (50 MPH) |
| LONGITUDINAL -35 | i KPH (−22 MPH) | -33 KPH (-20 MPH) | 81 KPH (50 MPH) |
| LATITUDINAL C | KPH (O MPH) | 10 KPH (6 MPH) | O KPH (O MPH) |
| PDOF ANGLE | -1 DEGREES | -17 DEGREES | |
| ENERGY DISSIPATED = | | 44372 FT-LB) | |
| VEHICLE #2 | | | |
| TOTAL 26 | KPH (16 MPH) | 25 KPH (15 MPH) | 72 KPH (45 MPH) |
| LONGITUDINAL -25 | KPH (-16 MPH) | -22 KPH (-14 MPH) | 72 KPH (45 MPH) |
| LATITUDINAL 5 | KPH (3 MPH) | 11 KPH (7 MPH) | O KPH (O MPH) |
| PDOF ANGLE | -11 DEGREES | -27 DEGREES | |
| ENERGY DISSIPATED = | 71886 JOULES (| 53013 FT-LB) | |

SUMMARY OF CRASHPC RESULTS USING TRAJECTORY

P10-9405

| | SPEED CHANGE (DAMAGE) | SPEED CHANGE (LINEAR MOMENTUM AND TRAJECTORY) | IMPACT SPEED (LINEAR MOMENTUM AND TRAJECTORY) |
|-------------------|--------------------------|---|---|
| VEHICLE #1 | | | ma semil a mo Mentil |
| TOTAL | 35 KPH (22 MPH) | 32 KPH (20 MPH) | 81 KPH (50 MPH) |
| LONGITUDINAL - | -35 KPH (-22 MPH) | -29 KPH (-18 MPH) | 81 KPH (50 MPH) |
| LATITUDINAL | O KPH (O MPH) | 13 KPH (8 MPH) | O KPH (O MPH) |
| FOOF ANGLE | -1 DEGREES | -23 DEGREES | |
| ENERGY DISSIPATED | | 44372 FT-LB) | |
| VEHICLE #2 | | | |
| TOTAL | 26 KPH (16 MPH) | 23 KPH (14 MPH) | 73 KPH (45 M PH) |
| LONGITUDINAL - | -25 KPH (-16 MPH) | -19 KPH (-12 MPH) | 73 KPH (45 MPH) |
| LATITUDINAL | 5 KPH (3 MPH) | 13 KPH (8 MPH) | O KPH (O MPH) |
| PDOF ANGLE | -11 DEGREES | -33 DEGREES | |
| ENERGY DISSIPATED |) = 71886 JOULES (| 53013 FT-LB) | |

SCENE INCT

VEHICLE #1

VEHICLE #2

| IMFACT X-POSITION IMPACT Y-POSITION IMPACT HEADING ANGLE | 6 M. (-2.0 FT.) 2.5 M. (8.2 FT.) 359 DEGREES | 4.1 M. (13.4 FT.) 1.4 M. (4.6 FT.) 189 DEGREES |
|--|--|--|
| REST X-POSITION | 15.2 M. (49.9 FT.) | -9.9 M. (-32.5 FT.) |
| REST Y-POSITION | 5.5 M. (18.0 FT.) | -4.2 M. (-13.8 FT.) |
| REST HEADING ANGLE | 184 DEGREES | 98 DEGREES |

SIDE-SLIP ANGLE
DIRECTION OF ROTATION
AMOUNT OF ROTATION

O DEGREES CCW <360 O DEGREES CCW <360

COLLISION AND SEPARATION

| | VEHICLE #1 | VEHICLE #2 |
|---------------------------------|--------------------------|--------------------|
| COLLISION | | |
| IMPACT X-FOSITION | 6 M. (-2.0 FT.) | 4.1 M. (13.4 FT.) |
| IMPACT Y-POSITION | 2.5 M. (8.2 FT.) | 1.4 M. (4.6 FT.) |
| IMPACT HEADING ANGLE | 359 DEGREES | 189 DEGREES |
| SEPARATION (USING SPINOUT) | | |
| US | 48 KPH (30 MPH) | 50 KPH (31 MPH) |
| VS | 10 KPH (6 MPH) | 11 KPH (7 MPH) |
| PSISD | -119 DEG/SEC | -69 DEG/SEC |
| RELATIVE VELOCITY (LINEAR MOMEN | NTUM | |
| SPEED ALONG LINE THROUGH CG | 79 KPH (49 MPH) | 67 KPH (42 MPH) |
| SPEED ORTHOGONAL TO CG LINE | 17 KPH (11 MPH) | 27 KPH (17 MPH) |
| C.OSING VELOCITY (LINEAR MOMENT | TUM) = 146 KPH (91 MPH) | |

TRAJECTORY SIMULATION RESULTS

| SIMULATION TIME = 3.000 | SECONDS INTEGRATION STEP | = .050 SECONDS |
|--|--------------------------|----------------------|
| | VEHICLE #1 | VEHICLE #2 |
| NUMBER OF ITERATIONS | 19 | 8 |
| BEST ITERATION | 19 | 8 |
| ERROR | .004 | .004 |
| PREDICTED REST POSITION | x 15.2 M. (49.9 FT.) | -9.8 M. (-32.2 FT.) |
| | Y 5.5 M. (18.1 FT.) | -4.2 M. (-13.7 FT.) |
| ANG | LE 185 DEGREES | 95 DEGREES |
| SCENE REST POSITION | x 15.2 M. (49.9 FT.) | -9.9 M. (-32.5 FT.) |
| the had been 1 % been been 1 1 had been as 1 as seen 1 | Y 5.5 M. (18.0 FT.) | -4.2 M. (-13.8 FT.) |
| ANG | • | 98 DEGREES |
| RESIDUAL LINEAR VELOCITY | O KPH (O MPH) | O KPH (O MPH) |
| RESIDUAL ANGULAR VELOCITY | 1.40 DEG/SEC | -1.89 DEG/SEC |
| | | |

DAMAGE DATA

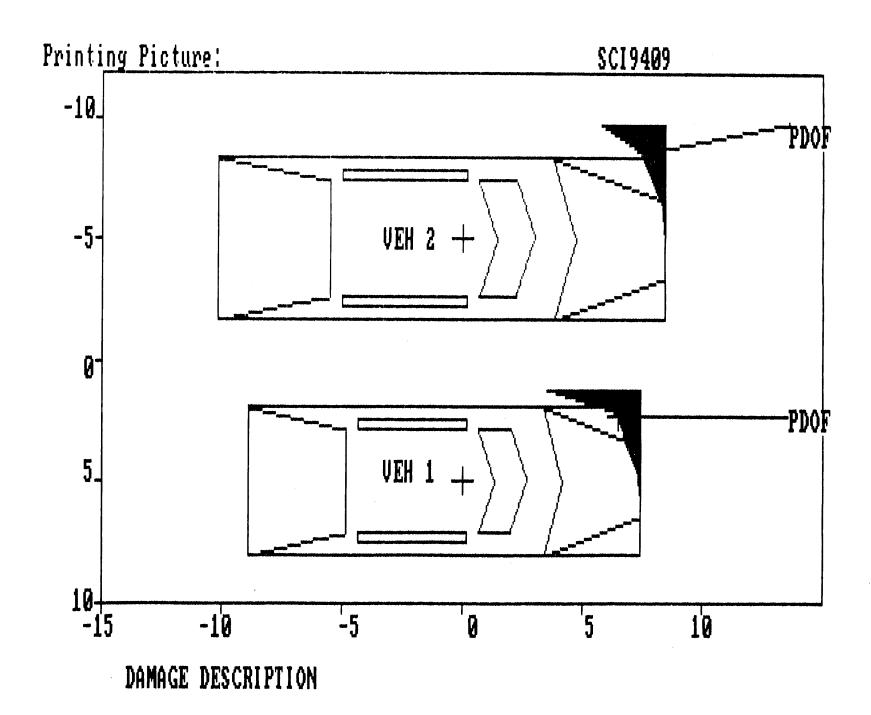
| | VEHICLE #1 | VEHICLE #2 |
|-------------------------------------|----------------------|----------------------|
| SIZE CATEGORY STIFFNESS CATEGORY | ত্র প | 5 9 |
| VEHICLE WEIGHT | 1273 KGS (2806 LBS) | 1741 KGS (3838 LBS) |
| CDC | 12FLAE7 | 12FYEW5 |
| PDOF ANGLE | -1 DEGREES | -11 DEGREES |
| CRUSH LENGTH | 132 CM. (52 IN.) | 170 CM. (67 IN.) |
| C1 | 121 CM. (48 IN.) | 81 CM. (32 IN.) |
| 02 | 32 CM. (13 IN.) | 33 CM. (13 IN.) |
| C3 | 22 CM. (9 IN.) | 18 CM. (7 IN.) |
| C4 | 14 CM. (6 IN.) | 3 CM. (1 IN.) |
| C5 | 4 CM. (2 IN.) | 0 CM. (0 IN.) |
| CS | 1 CM. (O IN.) | 0 CM. (0 IN.) |
| D | -46 CM. (-18 IN.) | -57 CM. (-22 IN.) |
| D' | -81 CM. (-32 IN.) | -109 CM. (-43 IN.) |

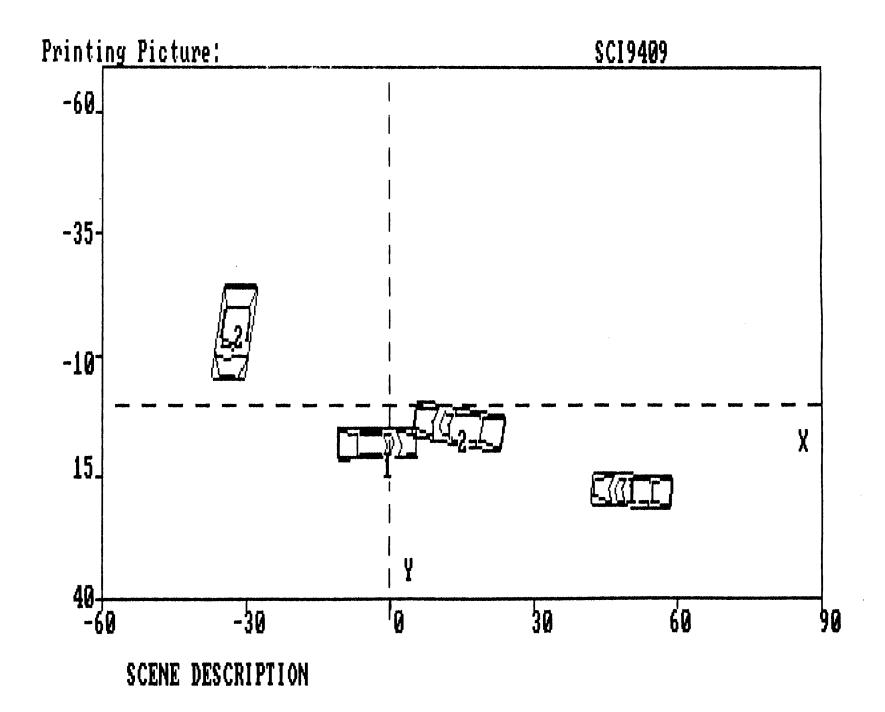
(* INDICATES DEFAULT VALUE)

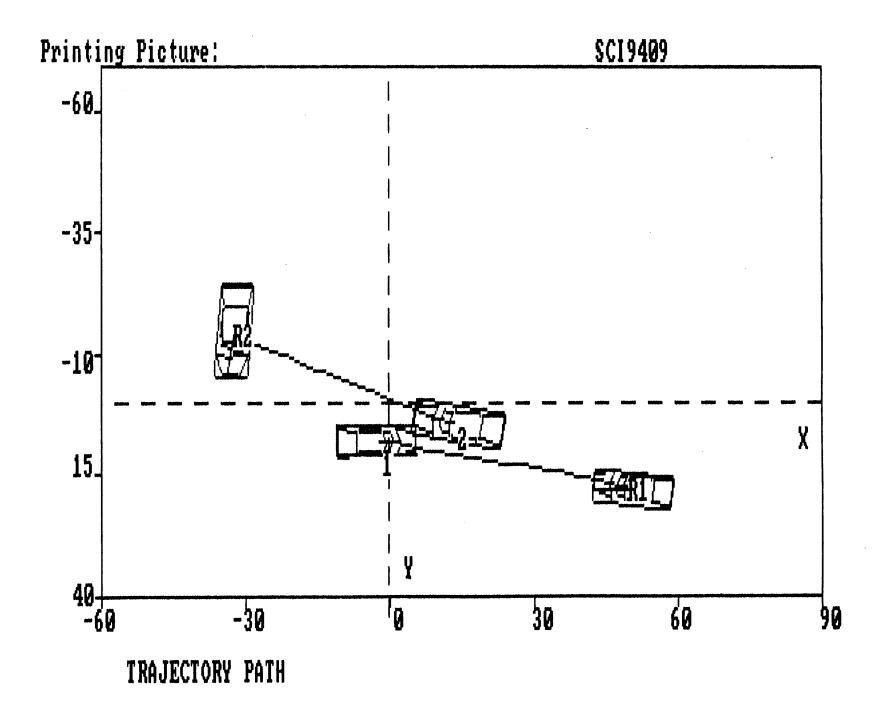
DIMENSIONS AND INERTIAL PROPERTIES

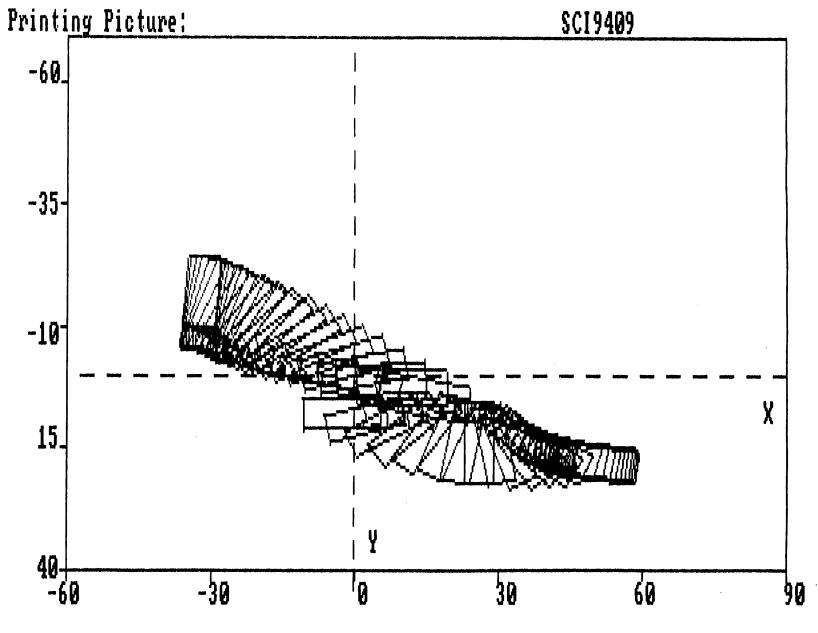
| · | VEHICLE #1 | VEHICLE #2 |
|--|--|--|
| CG TO FRONT AXLE CG TO REAR AXLE TRACK CG TO FRONT OF VEH CG TO REAR OF VEH CG TO SIDE OF VEH MOMENT OF INERTIA VEHICLE MASS | 130 CM. (51 IN.) 141 CM. (56 IN.) 150 CM. (59 IN.) 228 CM. (90 IN.) -270 CM. (-106 IN.) 92 CM. (36 IN.) 11001 KGS (24252 LBS) 3 KGS (7 LBS) | 142 CM. (56 IN.) 160 CM. (63 IN.) 162 CM. (64 IN.) 259 CM. (102 IN.) -310 CM. (-122 IN.) 101 CM. (40 IN.) 18287 KGS (40316 LBS) 5 KGS (10 LBS) |
| ROLLING RESISTANCE LEFT FRONT WHEEL RIGHT FRONT WHEEL LEFT REAR WHEEL RIGHT REAR WHEEL | 1.00 .51 .51 .51 | 1.00 .85 .90 .90 |

COEFFICIENT OF FRICTION = .80









VEHICLE TRAJECTORY: UNINTERRUPTED

Appendix C:

NASS CDS ACCIDENT FORM

U.S. Department of Transportation

National Highway Traffic Safety

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| Iministration | 700101 | | · · · · · · · · · · · · · · · · · · · | CRASHWORTHINES | S DATA SYST |
|---|----------|----------|---|-----------------------|-------------|
| | 10 | 5 | SPECIAL STUDIES | - INDICATO | DRS |
| Primary Sampling Unit Number Case Number - Stratum | 409 | - that h | (/) each special s as been completed; I studies and 0 for | code 1 for th | ne checked |
| IDENTIFICATION | | checke | | • | |
| 3. Number of General Vehicle Forms Submitted | 02 | 6 | SS15 Administrativ | ve Use | 0 |
| 4. Date of Accident | | 7 | SS16 Pedestrian C | rash Data Stud | y <u>0</u> |
| (Month, Day, Year) | 194 | 8 | SS17 Impact Fires | | 0 |
| 5. Time of Accident Code reported military time of a | ccident. | 9 | 818 | | |
| NOTE: Midnight = 2400 Unknown = 9999 | | 10 | SS19 | - | |
| | | | NUMBER O | F EVENTS | 4 |
| | | 1 | nber of Recorded Ev | ents | 01 |
| | | | le the number of eve his accident. | ents which occu | ırred |
| | ACCIDE | NT EVEN | TS | | |
| For each event that occurred in the acc involved vehicle or object on the right. | | | | left columns an | d the other |
| Accident Event | | General | Vehicle Number | | General |
| Seguence Vehicle | Class Of | Area of | or | Class Of | Area of |

| Accident Event Sequence Number | Vehicle Number | Class Of Vehicle | General Area of Damage | Vehicle Number or Object Contacted | Class Of Vehicle | General Area of Damage |
|--------------------------------------|-----------------------|-----------------------|------------------------------|------------------------------------|---------------------|------------------------------|
| 12. <u>0</u> <u>1</u> | 13. <u>O</u> <u>l</u> | 14. <u>0</u> <u>2</u> | 15. <u>F</u> | 16. <u>O</u> <u>2</u> | 17. <u> 5</u> | 18. <u>F</u> |
| 19. <u>0 2</u> | 20 | 21 | 22 | 23 | 24 | 25 |
| 26. <u>0</u> <u>3</u> | 27 | 28 | 29 | 30 | 31 | 32 |
| 33. 0 4 | 34 | 35 | 36 | 37 | 38 | 39 |
| 40. <u>0</u> <u>5</u> | 41 | 42 | 43 | 44 | 45 | 46 |

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND

OTHER VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

TDC APPLICABLE VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (79) Object fell from vehicle in-transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

Appendix D:

NASS CDS VEHICLE FORMS: CASE VEHICLE

U.S. Department of Transportation

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| 5. Vehicle Make (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number I G I L T 5 3 G 2 M Y 12 | 1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): | 11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55 (Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused |
|---|---|---|
| Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number A L T 5 3 A M Y | Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. | (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: Autopsy |
| Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number A L T 5 3 A M Y Left justify: Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines OFFICIAL RECORDS Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (1) Towed due to vehicle damage (1) Eyes to the nearest kph (NOTE: 000 means less than 0.5 kph) Og | 6. Vehicle Model (specify): , | ACCIDENT RELATED |
| Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number G L T 5 3 G A M Y (03) Braking (lockup) (03) Braking (lockup) (04) Braking (lockup) (04) Braking (lockup) (05) Releasing brakes (06) Steering left (07) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating and steering right (10) Accelerating and steering right (11) Accelerating and steering right (12) Accelerating and steering right (11) Accelerating and steering right (12) Accelerating and steering right (13) Accelerating and steering right (14) Accelerating and steering right (15) Accelerating and steering right (16) Accelerating and steering right (17) Accelerating and steering right (17) Accelerating and steering right (18) Other action (specify): 9. Police Reported Vehicle Disposition (10) No trowed due to vehicle damage (11) Towed due to vehicle damage (12) Unknown 10. Police Reported Travel Speed | Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. | (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown |
| 8. Vehicle Identification Number Gall Fig. 1 Fig. 2 Gall M Fig. 1 Gall Braking (lockup) (04) Braking (lockup) unknown) Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all lines OFFICIAL RECORDS | Note: Applicable codes may be found on | 14. Attempted Avoidance Maneuver (01) No avoidance actions |
| No VIN—Code all zeros Unknown—Code all nines OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (O) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown —mph X 1.6093 =kph (10) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating and steering right (13) Accelerating and steering right (14) Accelerating and steering right (15) No driver present (18) Other action (specify): (10) Accelerating (11) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating and steering right (12) Accelerating (13) Accelerating (14) Accelerating (15) Accelerating (16) Accelerating (17) No driver present (18) Other action (specify): (18) Other action (specify): (199) Unknown | 1 G 1 L T 5 3 G 2 M Y 1 2 3 4 5 6 7 8 8 10 11 12 13 14 15 16 17 | (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right |
| OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph (11) Accelerating and steering left (12) Accelerating an | No VIN—Code all zeros | (09) Braking and steering right (10) Accelerating |
| 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 =kph (98) Other action (specify): (99) Unknown 15. Accident Type Applicable codes may be found on the back of page two of this field form (CO) No impact Code the number of the diagram that best describes 1 ie accident circumstance (98) Other accident type (specify): (99) Unknown | | (11) Accelerating and steering left |
| (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 =kph (99) Unknown 15. Accident Type Applicable codes may be found on the bick of page two of this field form (C0) No impact Code the number of the diagram that best describes 1 ie accident circumstance (98) Other accident type (specify): (99) Unknown | | (97) No driver present |
| 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 = kph 15. Accident Type Applicable codes may be found on the bick of page two of this field form (C0) No impact Code the number of the diagram that best describes 1 to accident circumstance (98) Other accident type (specify): (99) Unknown | (0) Not towed due to vehicle damage (1) Towed due to vehicle damage | · · |
| mph X 1.6093 =kph | 10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above | Applicable codes may be found on the back of page two of this field form (CO) No impact Code the number of the diagram that best describes the accident circumstance |
| | | (99) Unknown |
| | | |

| | OCCUPANT RELATED | 24 | Rollover |
|-----|--|-----|--|
| 16. | Driver Presence in Vehicle (0) Driver not present | 24. | (0) No rollover (no overturning) |
| | (1) Driver not present (2) Unknown | | Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns |
| 17. | Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle | | (4) Rollover, 4 or more quarter turns (specify): |
| | (97) 97 or more (99) Unknown | | (5) Rolloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown |
| 18. | Number of Occupant Forms Submitted 0 1 | | |
| | VEHICLE WEIGHT ITEMS | | OVERRIDE/UNDERRIDE (THIS VEHICLE) |
| 19. | Vehicle Curb Weight | 25. | Front Override/Underride (this Vehicle) |
| | 10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more | 26. | Rear Override/Underride (this Vehicle) |
| | (999) Unknown | | (0) No override/underride, or not an end-to-end impact |
| | | | Override (see specific CDC) (1) 1st CDC |
| | | | (2) 2nd CDC |
| 20. | Vehicle Cargo Weight Code weight to nearest Code weight to nearest | | (3) Other not automated CDC (specify): |
| | Vehicle Cargo Weight Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown | | Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC |
| | lbs X .4536 = kgs | | (6) Other not automated CDC (specify): |
| | RECONSTRUCTION DATA | i | (7) Medium/heavy truck or bus override |
| 21. | Towed Trailing Unit (0) No towed unit | | (9) Unknown |
| | (1) Yes—towed trailing unit (9) Unknown | | HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V |
| 22. | Documentation of Trajectory Data for This Vehicle | | Values: (000)-(359) Code actual value (997) Noncollision |
| | (0) No (1) Yes | | (998) Impact with object (999) Unknown |
| 23. | Post Collision Condition of Tree or Pole (For Highest Delta V) | 27. | Heading Angle For This Vehicle $\frac{2}{3} \cdot \frac{5}{9} \cdot \frac{9}{3}$ |
| | (0) Not collision (for highest delta V) with tree or pole (1) Not damaged | 28. | Heading Angle For Other Vehicle 0 8 2 |
| | (2) Cracked/sheared (3) Tilted <45 degrees | | |
| ŀ | (4) Tilted ≥45 degrees (5) Uprooted tree | | |
| | (6) Separated pole from base(7) Pole replaced(8) Other (specify): | | |
| | (9) Unknown | | |

| Titudona Adadoni Ganping Oyotan Gidenii Gideni | |
|--|--|
| , | Highest |
| 29. Basis for Total Delta V (highest) | 32. Lateral Component of Delta V O _ O |
| Delta V Calculated (1) CRASH program—damage only routine | Nearest kph (highest) |
| (2) CRASH program—damage and trajectory routine | Nearest kph (secondary) |
| (3) Missing vehicle algorithm | (NOTE: 000 means greater than |
| Delta V Not Calculated (4) At least one vehicle (which may be this | -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above |
| vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. | (_999) Unknown |
| (5) All vehicles within scope (CDC applicable) | 33. Energy Absorption <u>O 6 O, 2</u> 0 0 |
| of CRASH program but one of the collision conditions is beyond the scope of the CRASH | 60168 Nearest 100 joules (highest) |
| program or other acceptable reconstruction technique, regardless of adequacy of damage | Nearest 100 joules (secondary) |
| data. (6) All vehicle and collision conditions are within | (NOTE: 0000 means less than 50 joules) |
| scope of one of the acceptable reconstruction programs, but there is insufficient data | (9997) 999,650 joules or more (9999) Unknown |
| available. | |
| COMPUTER GENERATED DELTA V | 34. Confidence In Reconstruction Program Results (For Highest Delta V) |
| Highest | (0) No reconstruction (1) Collision fits model — results appear |
| 30. Total Delta V | reasonable (2) Collision fits model — results appear high |
| 35_ Nearest kph (highest) | (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear |
| Nearest kph (secondary) | reasonable |
| (NOTE: 000 means less than | 35. Type of Vehicle Inspection |
| 0.5 kph) (160) 159.5 kph and above | (0) No inspection (1) Complete inspection |
| (999) Unknown | (2) Partial inspection (specify): |
| 31. Longitudinal Component of ± | - |
| Delta V | 36. Is this an AOPS Vehicle? |
| <u>-35</u> Nearest kph (highest) | (0) No (1) Yes - researcher determined |
| Nearest kph (secondary) | (2) VIN determined air bag system (3) VIN determined automatic (passive) belts |
| (NOTE: _000 means greater than -0.5 kph and less than +0.5 kph) | (4) VIN determined air bag and automatic (passive) belts |
| (±160) ±159.5 kph and above (999) Unknown | |
| | |
| IS OLDMISS APPLICABLE FOR T | HIS VEHICLE? [] YES [1 NO |
| IF YES: IS A COMPLETED OLDMISS PROGRA | AM SUMMARY INCLUDED? [] YES [] NO |

| ve.u | AND FIGURE OF THE PROPERTY OF | | |
|------|---|---|--|
| 37. | Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present] (7) Not reported (8) No driver present (9) Unknown | 0 | DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER DEC Specimen Test Test Results Results Narcotic Drug 40. 0 41. 1 Depressant Drug 42. 0 43. 1 Stimulant Drug 44. 0 45. 1 |
| 38. | Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present | 0 | Hallucinogen Drug Cannabinoid Drug Hallucinogen Drug Cannabinoid Drug Hallucinogen D |
| 39. | Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test Both (2) Urine test Specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given | | (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given |
| | | | |

| | - Tayo |
|--|---|
| OTHER DATA | 61. Rollover Initiation Object Contacted |
| 56. Driver's Zip Code | |
| (00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown | 62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane |
| 57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): | (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown |
| (9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance | (O) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction |
| (7) Fire truck or car | PRECRASH DATA |
| (8) Other (specify): | THEONASH DATA |
| (9) Unknown | 64. Pre-Event Movement (Prior to Recognition of Critical Event) |
| ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. | (01) Going straight (02) Slowing or stopping in traffic lane' (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane |
| 59. Rollover Initiation Type (0) No rollover | (07) Leaving a parking position |
| (1) Trip-over | (08) Entering a parking position |
| (2) Flip-over | (09) Turning right |
| (3) Turn-over | (10) Turning left (11) Making a U-turn |
| (4) Climb-over (5) Fall-over | (12) Backing up (other than for parking position) |
| (6) Bounce-over | (13) Negotiating a curve |
| (7) Collision with another vehicle | (14) Changing lanes |
| (8) Other rollover initiation type specify): | (15) Merging (16) Successful avoidance maneuver to a previous |
| (9) Unknown rollover initiation type | critical event (97) Other (specify): |
| 60. Location of Rollover Initiation | (98) No driver present (99) Unknown |
| (0) No rollover | |
| (1) On roadway | |
| (2) On shoulder—paved (3) On shoulder—unpaved | |
| (4) On roadside or divided trafficway median | |
| (4) On readside of divided flatticway median | · |

PRECRASH DATA (Continued) Pedestrian or Pedalcyclist, or Other Nonmotorist 65. Critical Precrash Event (80) Pedestrian in roadway This Vehicle Loss of Control Due To: (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (01) Blow out or flat tire (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (84) Pedalcyclist or other nonmotorist approaching (specify): (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): (85) Pedalcyclist or other nonmotorist-unknown up) (specify): (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (87) Animal in roadway (08) Other cause of control loss (specify): (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal-unknown location (90) Object in roadway (91) Object approaching roadway This Vehicle Traveling (10) Over the lane line on left side of travel lane (92) Object—unknown location (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection For Corrective Actions Attempted see variable GV14 (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (0) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally-rotation less than 30 (53) Traveling in opposite direction degrees (54) In crossover (3) Skidding laterally—clockwise rotation (55) Backing (4) Skidding laterally—counterclockwise rotation (59) Unknown travel direction of other motor vehicle (7) Other vehicle loss-of-control (specify): (8) No driver present Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction)—over right lane line 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (0) No avoidance maneuver (64) From parking lane (1) Vehicle stayed in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (2) Vehicle stayed on roadway but left travel lane (66) From crossing street, across path where avoidance maneuver was initiated (67) From crossing street, turning into opposite (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was (68) From crossing street, intended path not known (70) From driveway, turning into same direction initiated (71) From driveway, across pat 1 (4) Vehicle departed roadway (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown (78) Encroachment by other vehicle-details

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

unknown

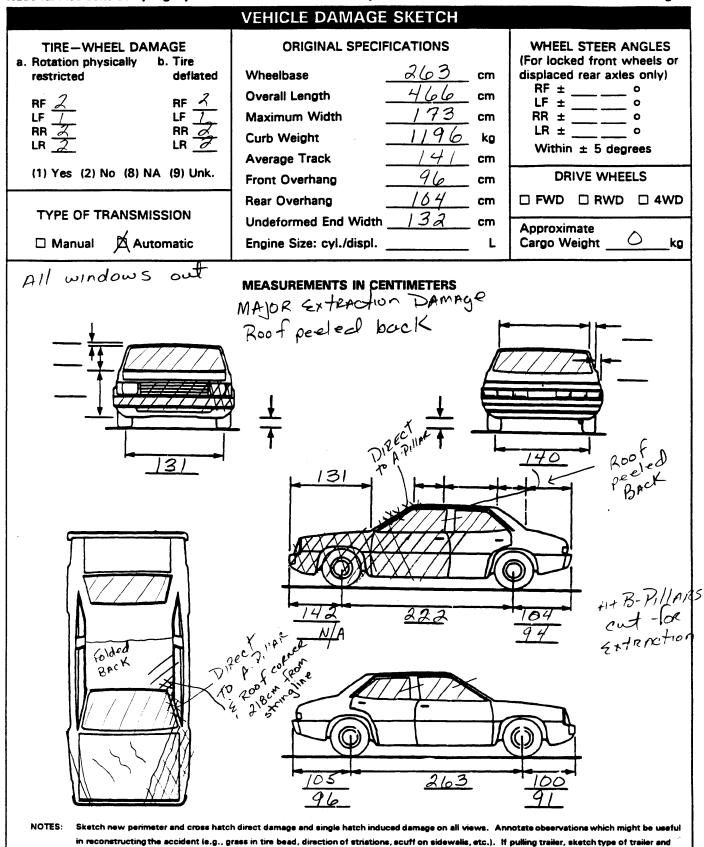
*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



| · · | ent of Transportation vay Traffic Sefety | EX | CTERIOR | VEHI | CLE F | ORM | NA | TIONAL A | CCIDENT WORTHIN | | |
|------------------------------|---|---|---|-----------------------------|------------------------------|--------------------------------|-----------------------|------------------------------------|--------------------|---------------|----------|
| | ry Sampling Unit Nu Number - Stratum | ımber | <u> 10</u> | <u>)</u> 3 | . Vehicl | e Numb | er | | | | 2_1 |
| | | | VEHICLE II | DENT | FICAT | ION | | | | | |
| VIN | GILT | <u>536</u> | <u>2 M</u> | Υ | | | | - | Model Y | 'ear <u>9</u> | 1 |
| Vehicle Ma | ake (specify): | reviole | <u>+</u> | | Vehicle | Model (| specify): | <u>ح</u> | RSI | co | |
| | | | LO | CATO |)R | | | | | | |
| | e end of the damage amaged axle for side | | ct to the veh | icle lon | gitudina | l center | line or t | umper | corner f | or end i | mpacts |
| | mpact No. | | of Direct Da | mage | | | Lo | ocation | of Field | L | |
| 1 | (L)B | COVER | - 40c | M'5 | | | | | , | | |
| | | | | | | | | | | | |
| | · | | | | | | | | _ | | |
| | | CRU | SH PROFIL | E IN | CENTII | VIETER | S | | | | |
| | Measure and docum Measure C1 to C6 f impacts. Free space value is o the individual C loca side taper, etc. Rec | rom driver t defined as t tions. This | o passenger he distance l may include | side in betwee the fo | front or n the ballowing: | rear im aseline a bumpei | pacts ar and the o | nd rear 1 original (umper t | body co | ntour ta | |
| | Use as many lines/c | olumns as n | ecessary to | describ | e each | damage | profile. | | | • | |
| Specific Impact Number | Plane of Impact C-Measurements | Direct I Width (CDC) | Damage Max Crush | Field L | c, | C, | C3 | C ₄ | C ₆ | C. | ±D |
| 1 | FRONT Bum per | | 218 | 120 | 121 | 32 | 22' | 14 | 4 | 1 | -46 |
| | · | | SOUNE SOUNE | | | | | | | | |
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| l | I | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 |

ORIGINAL SPECIFICATIONS WORK SHEET

| Wheelbase | 103.4 | inches | x 2.54 | = | <u> 263</u> cm |
|--------------------------|--|--------|---------|---|----------------------|
| Overall Length | 183.4 | inches | x 2.54 | - | 466 cm |
| Maximum Width | _ 68.2 | inches | x 2.54 | = | 173 cm |
| Curb Weight | 2,638 | pounds | x .4536 | = | $_{1,1}96$ kg |
| Average Track | <u> 5 5 .4 </u> | inches | x 2.54 | - | /_ <u>_/_/</u> _cm |
| Front Overhang | | inches | x 2.54 | = | <u>9</u> <u>6</u> cm |
| Rear Overhang | | inches | x 2.54 | = | 104 cm |
| Undeformed End Width | _52 | inches | x 2.54 | = | <u>132cm</u> |
| Engine Size: cyl./displ. | | сс | x .001 | = | : 2.2 L |
| | | CID | x .0164 | - | L |



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

| CDC WORKSHEET | | | | | | | | |
|----------------------------|---|---------------------------|----------------|-------------|----------------------------|-----------------|---------------|---------------------------------------|
| CODES FOR OBJECT CONTACTED | | | | | | | | |
| (01-30) | - Vehicle Nu | ımher | | 15 | 7) Fence | | | |
| (01-30) | - Verlicie NC | ninpei | | • - | 8) Wall | | | |
| Noncoll | ision | | | - | 9) Building | ì | | |
| | Overturn — r | ollover | | | 0) Ditch of | | | |
| | Fire or explos | | | | 1) Ground | | | |
| (33) | Jackknife | | | | Fire hyd | irant | | |
| (34) | Other intraun | it damage (speci | fy): | | 3) Curb | | | |
| | | | | | 4) Bridge | | : | |
| | Noncollision i | njury ision (specify): | | (0 | b) Other 11 | xed object (| specity): | |
| (30) | Other honcon | ision (specify). | | (6 | 9) Unknow | n fixed obje | ect | |
| (39) | Noncollision - | - details unknov | vn | _ | o, onknow | m naca obje | | |
| 100, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | Collis | sion with N | onfixed Obje | ect | |
| Collision | n With Fixed C |)bject | | (7 | 1) Motor v | ehicle not in | -transport | |
| | | m in diameter) | | | 2) Pedestr | | | |
| | | m in diameter) | | | 3) Cyclist | | | |
| | Shrubbery or | bush | | (7 | 4) Other n | onmotorist (| or conveyan | ce |
| (44) | Embankment | | | 17 | 5) Vehicle | | | |
| (45) | Breakaway n | ole or post (any o | diameter) | | 6) Animal | occupant | | |
| (43) | Dicakaway p | ole of post fally t | Jiai iie tei ; | • | 7) Train | | | |
| Nonbre | akaway Pole o | r Post | | | | disconnecte | d in transpo | rt |
| | | ≤ 10 cm in dian | neter) | | | fell from veh | | |
| (51) | Pole or post (| > 10 cm but ≤ | 30 cm in | (8 | 8) Other n | onfixed obje | ct (specify): | |
| | diameter) | | | | a. | | | |
| | | > 30 cm in dian | | (8 | 9) Unknov | vn nonfixed | object | |
| (53) | Pole or post (| diameter unknov | vn) | 19 | R) Other e | vent (specify | <i>(</i> 1)• | |
| (54) | Concrete traf | fic barrier | | ,,, | o, Other e | vent (specin | ,,, | |
| | Impact attenu | _ | | (9 | 9) Unknow | n event or | object | · · · · · · · · · · · · · · · · · · · |
| (56) | | barrier (includes | guardrail) | | | | - | |
| | (specify): | • | | _ | | | | • |
| | | DEEODMA | TION CLASS | IEICATION E | OV EVENIT A | II IMPED | | |
| | | DEFORMA | IION CLASS | IFICATION E | | MOMBEN | | |
| Accident | | (1) (2) | | | (4) Specific | (5) Specific | (6) | |
| Event | | Direction | Incremental | (3) | | Vertical or | Type of | (7) |
| Sequence | | of Force | Value of | Deformation | or Lateral | Lateral | Damage | Deformation |
| Number | Contacted | (degrees) | Shift | Location | Location | Location | Distribution | Extent |
| 12/ | 02 | 10 | | F | _ | E | E | 06 |
| <u> </u> | | | | | | <u></u> | | <u></u> |
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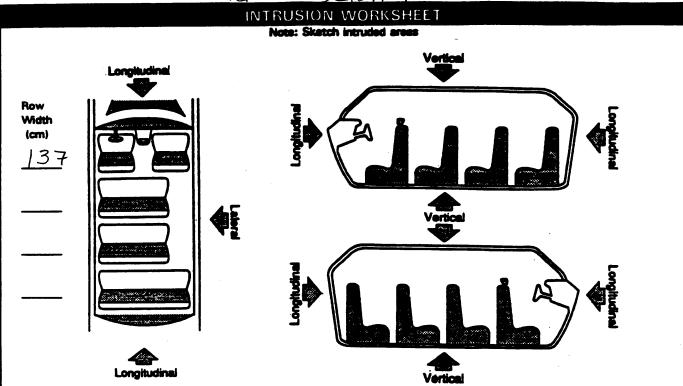
| COLLISION DEFORMATION CLASSIFICATION | | | | | | | |
|---|---|----------------------------------|--|--------------------------------------|---|---------------------------------|------------------------------|
| HIGHEST I | DELTA "V" | | | | | | |
| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force | n Deformation | (4) Longitudinal or Lateral Location | (5) Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent |
| 4.0 | 5. <u>0</u> 2 | 6. <u> </u> 6 | <u>?</u> 7. <u>F</u> | 8. <u>L</u> | 9. <u>A</u> | 10. <u>E</u> | 11.07 |
| Second Hi | ghest Delta "V | - | | | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | CR | USH PROFILE | IN CENTIM | IETERS | | |
| | The crush pro | file for the opriate spa | damage described ce below. (ALL N | d in the CDC(s) | above should | be documente ITIMETERS.) | ed |
| HIGHEST | DELTA "V" | | | • | | | • |
| 20. | 21. | | | | C ₆ | C _e | 22. |
| <u>132</u> | <u> 121</u> | 032 | 022 | 014 0 | 004 C | <u> </u> | 5046 |
| Second Hi | ghest Deita "V | • | | | | | |
| 23. | 24. | <u>C,</u> | | <u>C.</u> | C ₆ | C _e | 25. ±D |
| | | | | | | | <u>+</u> = |
| | S Documented Coded on The ted File? | <u>O</u> 2 | 27. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown | | | | <u>263</u> eter |
| | | | | | inches X 2. | 54 = | centimeters |

| 29. Is This A Multi-Stage Manufactured Vehicle | 0 | 34. Fuel Tank-1 Location |
|--|----|--|
| And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): | | 35. Fuel Tank-2 Location (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered |
| (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified | | (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered |
| 30. Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown | | (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown |
| 31. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank-1 33. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic | 20 | 36. Fuel Tank-1 Filler Cap Location 37. Fuel Tank-2 Filler Cap Location (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown |
| (2) Non-metallic (9) Unknown | | 38. Fuel Tank-1 Damage (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): |

| 40. | Location of Fuel System-1 Leakage | | This Vehicle Equipped With More Than |
|-----|--|---------------|--|
| 41. | Location of Fuel System-2 Leakage | | No (one or two tanks only) |
| | (0) No fuel tank | 1 | |
| | (1) No fuel leakage | | s - <i>More Than Two Tanks</i> Yes <u>no damage</u> to any tank or filler |
| | Primary Area Of Leakage | 1 | cap and no fuel system leakage |
| | (2) Tank | 121 | Yes - no damage to any tank or filler |
| | (3) Filler neck | \ <u>'-</u> ' | cap but there is fuel system leakage |
| | | | (specify leakage location): |
| | (4) Cap | 1 | (Specify leakage location). |
| | (5) Lines/pump/filter | | |
| | (6) Vent/emission recovery | (3) | Yes damage to an additional tank or |
| | (8) Other (specify): | 1 | filler cap and there is fuel system leakage |
| | | 1 | (specify the following): |
| | (9) Unknown | | Type of tank |
| | (5) CHRIGHII | | Tank location |
| | | | Tank location |
| | △ 1 | i | Filler cap location |
| 42. | Fuel Type-1 | | Tank damage |
| | <i>τ</i> . Λ | 1 | Location of leakage |
| 43. | Fuel Type-2 | | Type of fuelUnknown if more than two tanks |
| | ··· | (9) | Unknown if more than two tanks |
| | Single Fuel Type | | |
| | (00) No fuel tank | | |
| | (01) Gasoline | | |
| | (02) Diesel | | COMMENTS |
| ! | | | |
| | (03) CNG (Compressed Natural Gas) | | |
| | (04) LPG (Liquid Petroleum Gas) also | | |
| | known as Propane | | |
| | (05) LNG (Liquid Natural Gas) | | |
| | (06) Methanol (M100 or M85) | | |
| | (07) Ethanol (E100 or E85) | | |
| | (08) Other (Hydrogen or others) (specify): | | |
| | | | |
| | Electric Powered or Electric/Solar | | |
| | | - | |
| | Powered Vehicles | | |
| | (10) Lead Acid Battery | l — | |
| | (11) Nickel-Iron Battery | | |
| i | (12) Nickel-Cadmium Battery | | |
| | (13) Sodium Metal Chloride Battery | 1 | |
| | (14) Sodium Sulfur Battery | i | |
| | (18) Other (Specify): | 1 - | |
| | | | |
| | (98) Other Hybrid (specify): | - | |
| | | | |
| | | - | |
| | (99) Unknown fuel type | 1 | |
| | | - | |
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| | | | |
| •• | * STOP: IF THE CDS APPLICABLE VEHICLE V | VAS NIC | TOWED AND WAS NOT AN AOPS *** |
| | | | |
| | (I.E., $GV09 = 0$ OR 9 AND $GV36 = 0$), DO NO | T COM | PLETE THE INTERIOR VEHICLE FORM. |
| | | | |
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| | | TERIOR VE | HICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINGS DATA SYSTEM |
|------------|--|-----------------|--|
| | stration | | GLAZING |
| 1. | Primary Sampling Unit Number | $\perp 0$ | |
| 2. | Case Number - Stratum 9 | 409 | Glazing Damage from Impact Forces 15. WS 9 16. LF 6 17. RF 0 18. LR 9 19. RR 0 |
| 3. | Vehicle Number | 01 | 20. BL 21. Roof 8 22. Other 2 |
| | INTEGRITY | | |
| | • | 12 | (0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces |
| | Passenger Compartment Integrity (00) No integrity loss | 19 | (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces |
| | Yee, Integrity Was Lost Through (01) Windshield | | (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces |
| | (O2) Door (eide) | | (7) Glazing removed prior to accident |
| i i | (O3) Door/hetch (beck door) (O4) Roof | | (8) No glazing (9) Unknown if damaged |
| t . | (05) Roof glass | | (0) |
| | (06) Side window | | Olarian Barraga from Carrage Contact |
| I | (07) Rear window (backlight) | _ | Glazing Damage from Occupant Contact |
| 1 | (08) Roof and roof glass (09) Windshield and door (side) | · | 23. WS 9 24. LF 25. RF 26. LR 27. RR 2 |
| | (10) Windshield and roof | | |
| | (11) Side and rear window (side window and be | ecklight) | 28. BL 29. Roof 230. Other 4 |
| | (12) Windshield and side window | | (0) No occupent contact to glazing or no glazing |
| | (13) Door and side window (98) Other combination of above (specify): | | (1) Glazing contacted by occupent but no glazing damage |
| l ' | (98) Other combination of above (specify): | | (2) Glazing in place and cracked by occupant contact |
| 1 (| (99) Unknown | _ | (3) Glazing in place and holed by occupant contact |
| | | | (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact |
| | | | (5) Glazing out-of-place by occupent contact and holed by |
| Doo | or, Tailgate or Hatch Opening | | occupant contact |
| 1 | | \wedge | (6) Glazing disintegrated by occupent contact (9) Unknown if contacted by occupent |
| 5. L | .F <u></u> | 9. TG/H <u></u> | If No Glazing Damage <i>And</i> No Occupant Contact or No |
| | (O) No door/gate/hatch | | Glazing, Then Code IV31 Through IV46 As Ø |
| | (1) Door/gate/hatch remained closed and opera | | |
| | (2) Door/gete/hatch came open during collision | • | m can a mar delicad Olerian |
| i | (3) Door/gate/hatch jammed shut (8) Other (specify): | | Type of Window/Windshield Glazing |
| | (9) Unknown | | 31. WS \perp 32. LF $\stackrel{\frown}{\cancel{\triangle}}$ 33. RF $\stackrel{\frown}{\cancel{\triangle}}$ 34. LR $\stackrel{\frown}{\cancel{\triangle}}$ 35. RR $\stackrel{\frown}{\cancel{\triangle}}$ |
| | | | 36. BL 37. Roof 38. Other |
| | | | (O) No glazing contact and no damage, or no glazing |
| Dan | nage/Failure Associated with Door, Tail | gate or Hatch | (1) AS-1 — Laminated |
| Ope | ning in Collision. If IV05-IV09 ≠ 2, TI | hen code Ø | (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted |
| 10 | LF | 14. TG/H () | (4) AS-14 — Glass/Plastic |
| | | 14. 10/11 | (8) Other (specify): |
| | (O) No door/gate/hatch or door not opened | | (9) Unknown |
| | Door, Tailgate or Hatch Came Open During Colli | lision | |
| | (1) Door operational (no damage) | | Window Precrash Glazing Status |
| | (2) Latch/striker failure due to damage | | 1 . A . |
| l . | (3) Hinge failure due to damage (4) Door structure failure due to damage | | 39. WS $\frac{1}{2}$ 40. LF $\frac{9}{2}$ 41. RF $\frac{9}{2}$ 42. LR $\frac{9}{2}$ 43. RR $\frac{9}{2}$ |
| 1 | (4) Door structure railure due to dantage (5) Door support (i.e., piller, sill, roof side rail, | | 44. BL Ø 45. Roof Ø 46. Other Ø |
| | etc.) failure due to damage | | 44. BL 45. KOOT 40. Uther |
| 4 | (6) Latch/striker and hinge failure due to dame | ge | (O) No glazing contact and no damage, or no glazing |
| ' | (8) Other failure (specify): | | (1) Fixed |
| | (9) Unknown | | (2) Closed (3) Partially opened |
| 1 | | | (4) Fully opened |
| 1 | | | (9) Unknown |

161 LT53G2MY

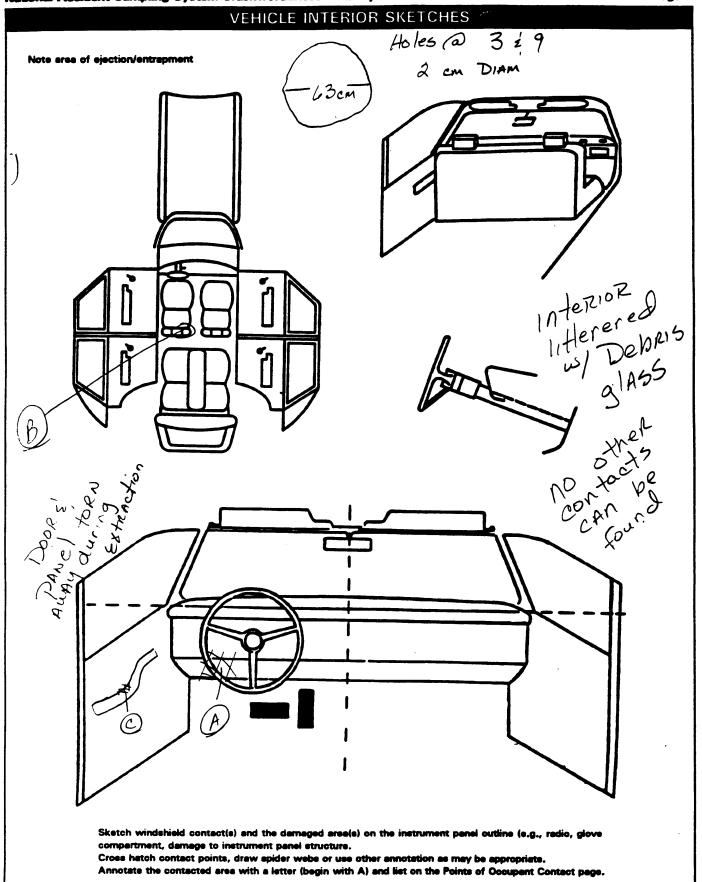


| LOCATION OF INTRUSION | INTRUDED COMPONENT | COMPARISON VALUE | Meas: | INTRUDED VALUE | ntimetere) | INTRUSION | DOMINANT CRUSH DIRECTION |
|-----------------------------|-----------------------|---------------------|-------|----------------|------------|-----------|--------------------------------|
|)/ | @ DASh | 143 | _ | 126 | * | 17 | Long |
| 11 | HODE PAN | 23 | _ | 8 | = | 15 | Long |
|)/ | Hood | 185 | _ | 148 | * | 37 | Long |
| 12 | Hood | 12 | _ | 4 | = | 8 | Long |
| 11 | A.P.llar | | - | UNK | - | | Long |
| 11 | Roof | | _ | unK | = | | VERT |
| 11 | SIDE PANEl | 33 | _ | 24 | * | 9 | LAT |
| 11 | TOE PAN | 51 | _ | 45 | = | 6 | LONG |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | | | _ | | = | | |

OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components Dominant Location of Introdice Crush (01) Steering assembly Meanitude Direction intrusion Component of Intrueion (02) Instrument panel left (03). Instrument panel center (04) Instrument panel right 1st 47. 1 48. 3 0 49. 4 50. 2 (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51. 1 1 52. 0 2 53. 3 54. 2 (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) 3rd 55. / / 56. / 7 57. 3 58. 2 (13) Roof side rail (14) Windshield (15) Windshield header (16) Window frame 4th 59. / / 60. 2 7 61. 2 62. 3 (17) Floor pan (includes sill) (18) Backlight header (19) Front seat back (20) Second seat back 5th 63. 12 64. 30 65. 266. 2(21) Third seat back (22) Fourth seat back (23) Fifth seat back (24) Seat cushion 6th 67. 1 1 68. 0 5 69. 1 70. 2 (25) Back door/panel (e.g., tailgate) (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar 7th 71. 9 9 72. 9 9 73. 9 74. 9 (28) Side panel - rear of the A (A2)-pillar Exterior Components (30) Hood 8th 75.___ 76.___ 77.___ 78.___ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 9th 79.___ 80.___ 81.__ 82.___ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 63.___ 84. 85. 86. (99) Unknown **LOCATION OF INTRUSION MAGNITUDE OF INTRUSION** (1) ≥ 3 centimeters but < 8 centimeters Fourth Seat Front Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown **DOMINANT CRUSH DIRECTION** Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic (9) Unknown

| u | di Messurements Are in Comimo | tere) | |
|--------------------|-------------------------------|-------|-------------|
| COMPARISON VALUE - | DAMAGE VALUE | = | DEFORMATION |
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| REBUILE Account Certains Contract Contract | |
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| 87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown | 93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke |
| 88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown |
| 89. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown |
| 90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | _45448 miles x 1.8083 = _73139 telemeters Source:OTOME+ER |
| 91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | 95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown |
| 92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters | 96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown |
| (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown | 97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown |



| | | | POIN | ITS | OF OC | CUPANT CONTAC | T | | |
|--------------------------------------|--|---|---|--|--|--|----------------------|--|--|
| Cont | act | Interior Component Contacted | Occupant No. If Known | R | Body legion If nown | Supporting Ph | ysical E | vidence | Confidence Level of Contact Point |
| A | | 09 | DRIVER | 1 | Knee | pushed in | 02 | acked | |
| В | | 44 | 11 | 1 | MD | Deforme | | | 3 |
| C | | 20 | - 11 | | TORSO | | | cloth trans | 2 |
| D | | 20 | • | 16 | 101250 | 50077 70551 | vie . | COTA TIGARS | 9 |
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| N | | | | | | | | | |
| | | | C | ODES | FOR INT | ERIOR COMPONENTS | | • | |
| (02) (03) (04) (05) (06) | Sunvise Steerir Steerir of cod Steerir selecto | | stion nission achment | (24) (25) (26) (27) | Left side v Left side v one or mo frame, will B-piller, or | pillar (specify): vindow glass or frame vindow glass including re of the following: ndow sill, A (A1/A2)-pillar, roof side rail. side object (specify): | (47) (48) (49) | Other occupents (sp Interior loose object Child safety seat (sp Other interior object Front header Rear header Roof left side rail | s pecify): |
| 1 | Left in | strument panel ar | | RIGHT | | | (53) | Roof right side rail | _ |
| | | instrument panel nstrument panel (| | (30) | • | interior surface, hardware or armrests | (54) | Roof or convertible | top |
| | _ | compartment doo | | (31) | Right side | hardware or armrest | FLOOR | | |
| (13) | | poleter hield including on | a or more | (32) (33) | Right A (A Right B-pil | 1/A2)-piller | (56) (57) | Floor (including toe Floor or console mo | • |
| '''' | | following: front h | | (34) | | t piller (specify): | 1007 | transmission lever, | |
| | | /A2)-pillar, instrun or steering asser | | (35) | Right eide | window glass or frame | (58) | console Parking brake handi | • |
| | side o | • | nbiy (diredi | | | window glass including | | Foot controls includ | |
| (15) | | hield including on following: front h | | | | re of the following: ndow sill, A (A1/A2)-pillar, | | brake | |
| | | A2)-piller, instrum | | | - | roof side rail. | REAR | | |
| | | (passenger side o | • | (37) | Other righ | t side object (specify): | (60) | Backlight (rear wind | • |
| (16) | COVE | side air bag comp | er anont | (38) | Right side | window sill | (61) (62) | | · · · · · · · · · · · · · · · · · · · |
| (17) | | nger side air bag | | AITES! | . | | | | |
| (18) | • | irtment cover hield reinforced b | | INTERI((40) | Seat, baci | k support | | | |
| | object | (epecify): | | (41) | Belt restra | int webbing/buckle | | COMPRESSOR | EL OF |
| (19) | Uther | front object (spec | ity): | (42) | Beit restra | nint B-piller nt point | | CONFIDENCE LEV | |
| | | | | (43) | Other rest | traint system component | 1 | | |
| (20) | | de interior surface |) , . | (44) | (specify):_ Head rest | raint system | | (1) Certain. (2) Probable | . • |
| | exclud | ing hardware or a | rmrests | | Air bag (| use codes "16" and "17" | | (3) Possible | |
| | | de herdwere or a: (A1/A2)-piller | mrest | | • | s sustained from air bag ent covers) | | (9) Unknown | |
| L '==' | | 4 | | | Jon spending | | | | |

AUTOMATIC RESTRAINTS NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Right Left 0 Availability/Function Deployment R Failure Air Bag System Deployment Are There indications of Air Bog Air Bag System Availability/Function (O) Not equipped/not evailable System Febure? (O) Not equipped/not evailable (1) Air bag deployed during accident (O) Not equipped/not available (1) Air beg (se a result of impact) (1) No. (2) Yes (specify): (2) Air beg deployed inadvertently just Non-functional prior to accident (2) Air bag disconnected (specify): (3) Air bag deployed, accident sequence (9) Unknown undetermined (3) Air bag not reinstalled (4) Nondeployed (9) Unknown (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Left Right Availability/Function F Use R Type S **Proper Use** Failure Modes Proper Use of Automatic (Passive) Belt **Autometic (Pessive) Belt Fellure Modes** Automatic (Passive) Belt System Availability/Function **During Accident** (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (O) Not equipped/not available (1) Automatic belt used properly (1) No automatic belt failure(s) (1) 2 point automatic belts (2) Automatic belt used properly with Torn webbing (stretched webbing not (2) 3 point automatic belts child safety seat included) (3) Automatic belts - type unknown (3) Broken buckle or latchplate Autometic Belt Used Improperly (4) Upper anchorage separated Non-functional (5) Other anchorage separated (specify): (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind Broken retractor Combination of above (specify): back Automatic (Passive) Belt System Use (5) Automatic belt worn around more (8) Other automatic belt failure (specify): (0) Not equipped/not available/destroyed than one person (9) Unknown or rendered inoperative (6) Lap portion of automatic belt worn (1) Automatic belt in use on abdomen (2) Autometic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperty (3) Automatic belt use unknown with child safety seat (specify): (9) Unknown (8) Other improper use of automatic belt Autometic (Passive) Belt System Type system (O) Not equipped/not available (specify): (1) Non-motorized system (9) Unknown (2) Motorized system (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous

| | | Left | Center | Right |
|-----------------------|---------------------|--------|--------|-------|
| E | Availability | 4. | 0 | 4 |
| F I R S T | Evidence of usage | 04, | 00 | 04 |
| | Used in this crash? | 09 | D | 00 |
| | Proper Use | 9 | 0 | 0 |
| | Failure Modes | 1 | 0 | |
| SECON | Availability | 04 | 3 | 04 |
| | Evidence of usage | ϕ | 00 | 00 |
| C | Used in this crash? | \cup | 0 | ٥ |
| 020 | Proper Use | 0 | 0 | |
| | Failure Modes | 0 | し こ | 0 |
| 0 | Availability | | | · |
| Ť | Evidence of usage | | | |
| H | Used in this crash? | , | | , |
| | Proper Use | | | |
| R | Failure Modes | | | |

- (O) None available
- Belt removed/destroyed (1)
- Shoulder belt
- (3) Lap belt
- Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt
- destroyed/removed) (7) Lap belt (shoulder belt
- destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt (05) Belt used type unknown
- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat -
- type unknown (18) Other belt used with child safety seat
- (specify):
- Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

| CHILD SAFETY SEAT | FIELD ASSESSMENT |
|--|---|
| When a child safety seat is present enter the occupant's the occupant's number using the codes listed below. C | number in the first row and complete the column below |
| Occupant Number | |
| Type of Child Safety Seat | |
| 2. Child Safety Seat Orientation | |
| 3. Child Safety Seat Harness Usage | |
| 4. Child Safety Seat Shield Usage | |
| 5. Child Safety Seat Tether Usage | |
| 6. Child Safety Seat Spec Make/Model | ify Below for Each Child Safety Seat |
| 1. Type of Child Safety Seat | 3. Child Safety Seat Harness Usage |
| (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): | Child Safety Seat Shield Usage Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat |
| (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown orientation | Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used 6. Child Safety Seat Make/Model (Specify make/model and occupant number) |

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| | | Left | Center | Right |
|-------------|----------------------------|------|--------|-------|
| F | Head Restraint Type/Damage | 4 | 0 | 3 |
| İ | Seat Type | 02 | | 0,2 |
| R S T | Seat Performance | l | | 1 |
| | Seat Orientation | | | 1 |
| s | Head Restraint Type/Damage | 0 | 0 | 0 |
| SEC | Seat Type | 03 | 03 | 03 |
| 0 2 | Seat Performance | 1 | 1 | 1 |
| D | Seat Orientation | l | 1 | 1 |
| т | Head Restraint Type/Damage | | | |
| Ĥ | Seat Type | | | |
| Ŕ | Seat Performance | | | |
| D | Seat Orientation | | | |
| 0 | Head Restraint Type/Damage | | | |
| Ť | Seat Type | | | |
| E | Seat Performance | | | |
| R | Seat Orientation | | | |

| Head | Restraint | Type/Damage | by | Occupant | at | This |
|-------|-------------|-------------|----|----------|----|------|
| Occup | pant Positi | on | | | | |

- (0) No head restraints
- (1)
- Integral no damage Integral damaged during accident (2)
- (3)
- Adjustable no damage
 Adjustable damaged during accident (4)
- (5)
- Add-on no damage Add-on damaged during accident (6)
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN**)

| Complete the following if the research the vehicle. Code the appropriate JECTION No [X] Yes [] Describe indications of ejection and leading the second control of the second | ner has any inc data on the (| Jecupant As | sessment ro | | ejected fr | om or entrapp | ed |
|---|---|-------------|-------------|---|-------------|-----------------------|-------|
| | | | | | | | |
| Occupant Number | | | | | | | |
| Ejection | | | | | | | |
| (Note on Vehicle Interior Sketch) Ejection Area | | | | | | | |
| Ejection Medium | | | | | | | |
| Medium Status | | | | | | | |
| ection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown ection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear | (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): | | | (5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown | | | Prior |
| escribe entrapment mechanism: Frontal plane And steering A against the seathack was | tssem b | ing to | PIN | eft tn trd into | e d that | river the Kseat | 5pa |

Appendix E:

NASS CDS VEHICLE FORMS: VEHICLE #2



| U.S. Department of Transportation National Highway Traffic Safety Administration | GENERAL VE | HICLE FORM NATIONAL ACCIDENT SAMP | LING SYST |
|---|---------------------------------------|---|---------------------|
| 1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICA 4. Vehicle Model Year Code the last two digits of the m (99) Unknown 5. Vehicle Make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): Applicable codes are found in younges of the make (specify): | 9 4 0 9 0 2 ATION model year | 11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown Note: See variables 37 through 55 (Page 4) for information on Other D 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown | Orugs 9 <u>6</u> |
| 6. Vehicle Model (specify): Applicable codes are found in yo NASS Data Collection, Coding ar Editing Manual. (999) Unknown | ur | ACCIDENT RELATED | <u>36</u> |
| Left justify; Slash zeros and lette No VIN—Code all zeros Unknown—Code all nines | 12 13 14 15 16 17 r Z (0 and Z) | 55 mph X 1.6093 = 86 kph 14. Attempted Avoidance Maneuver (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (97) No driver present | 2 <u>9</u> |
| Police Reported Vehicle Dispositie (0) Not towed due to vehicle dan (1) Towed due to vehicle damage (9) Unknown Police Reported Travel Speed Code to the nearest kph (NOTE: (less than 0.5 kph) (160) 159.5 kph and above (999) Unknown | 1 0 5 0 | (98) Other action (specify): (99) Unknown 15. Accident Type Applicable codes may be found on the back of page two of this field form (CO) No impact Code the number of the diagram that best describes 1 ie accident circumstance (98) Other accident type (specify): (99) Unknown | <u>5 1</u> |

**** SKIP TO VARIABLE GV37 IF GV07 DOES NOT EQUAL 01-49 ****

___ mph X 1.6093 = ___ kph

| | OCCUPANT RELATED | 24 | Rollover |
|-----|---|-----|--|
| 16. | Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown | 24. | (0) No rollover (no overturning) Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns |
| 17. | Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown | | (4) Rollover, 4 or more quarter turns (specify): (5) Rolloverend-over-end (i.e., primarily about the lateral axis) |
| 18. | Number of Occupant Forms Submitted/ | | (9) Rollover (overturn), details unknown |
| | VEHICLE WEIGHT ITEMS | | OVERRIDE/UNDERRIDE (THIS VEHICLE) |
| 19. | Vehicle Curb Weight | 25. | Front Override/Underride (this Vehicle) |
| | 10 kilograms. (045) Less than 450 kilograms | 26. | Rear Override/Underride (this Vehicle) |
| | (610) 6,100 kilograms or more (999) Unknown | | (0) No override/underride, or not an end-to-end impact |
| | lbs x .4536 = 1.6 58 kgs Source: 88 6AS + PUCK INDEX | | Override (see specific CDC) |
| | Source: US CAAS 1 200 1 11150 A | | (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify): |
| 20. | Vehicle Cargo Weight, 0Code weight to nearest | | |
| | 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more | | Underride (see specific CDC) (4) 1st CDC |
| | (999) Unknown lbs X .4536 =, kgs | | (5) 2nd CDC (6) Other not automated CDC (specify): |
| | RECONSTRUCTION DATA | | (7) Medium/heavy truck or bus override |
| 21. | Towed Trailing Unit (0) No towed unit | | (9) Unknown |
| | (1) Yes—towed trailing unit (9) Unknown | | HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V |
| 22. | Documentation of Trajectory Data for This Vehicle (0) No (1) Yes | | Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown |
| 23. | Post Collision Condition of Tree or Pole (For Highest Delta V) | 27. | Heading Angle For This Vehicle 082 |
| | (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted < 45 degrees (4) Tilted ≥ 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): | 28. | Heading Angle For Other Vehicle <u>259</u> |
| 1 | (3) UHKHUWH | 1 | |

| | | Highest | | | | |
|-----|--|---|---|--|--|--|
| 29. | Basis for Total Delta V (highest) | 32. Lateral Component of Delta V - 0 0 5 | _ | | | |
| | Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm | Nearest kph (highest) Nearest kph (secondary) | | | | |
| | Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data | (NOTE:000 means greater than0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown 33. Energy Absorption | | | | |
| | available. | 34. Confidence In Reconstruction Program | | | | |
| 30. | Total Delta V Nearest kph (highest) Nearest kph (secondary) | Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable | • | | | |
| | (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown | 35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify): | • | | | |
| 31. | Longitudinal Component of Delta V -25 Nearest kph (highest) Nearest kph (secondary) (NOTE: _000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown | 36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (2) VIN determined air bag and automatic (passive) belts | • | | | |
| | IS OLDMISS APPLICABLE FOR THIS VEHICLE? [] YES [] NO | | | | | |
| 1F | IF YES: IS A COMPLETED OLDMISS PROGRAM SUMMARY INCLUDED? [] YES [] NO | | | | | |

| 37. | Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present] (7) Not reported | DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER DEC Specimen |
|-----|--|---|
| | (8) No driver present | Test Test |
| 38. | Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present | Narcotic Drug 40. 0 41. 0 Depressant Drug 42. 0 43. 0 Stimulant Drug 44. 0 45. 0 Hallucinogen Drug 46. 0 47. 0 Cannabinoid Drug 48. 0 49. 0 Phencyclidine (PCP) 50. 0 51. 0 Inhalant Drug 52. 0 53. 0 Other Drug (Excluding 54. 0 55. 0 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash) |
| | | Codes For DEC Test Results |
| 39. | Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given | (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given |
| | | |
| | | |

| | Page |
|---|---|
| OTHER DATA 56. Driver's Zip Code | 61. Rollover Initiation Object Contacted |
| (00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown | (O) No rollover |
| 57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander | (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown |
| (8) Other (specify): (9) Unknown | 63. Direction of Initial Roll (0) No rollover |
| 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance | (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction |
| (7) Fire truck or car | PRECRASH DATA |
| (8) Other (specify):(9) Unknown ROLLOVER DATA | 64. Pre-Event Movement (Prior to Recognition of Critical Event) (01) Going straight |
| If GV07 (Body Type) \neq 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. | (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle |
| 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): | (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify): |
| 60. Location of Rollover Initiation | (98) No driver present (99) Unknown |
| (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown | |

PRECRASH DATA (Continued) 62 Pedestrian or Pedalcyclist, or Other Nonmotorist 65. Critical Precrash Event (80) Pedestrian in roadway (81) Pedestrian approaching roadway This Vehicle Loss of Control Due To: (01) Blow out or flat tire (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (02) Stalled engine (specify): (03) Disabling vehicle failure (e.g., wheel fell off) (84) Pedalcyclist or other nonmotorist approaching (specify): roadway (specify): (04) Non-disabling vehicle problem (e.g., hood flew (85) Pedalcyclist or other nonmotorist—unknown up) (specify): (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (87) Animal in roadway (08) Other cause of control loss (specify): (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal—unknown location (90) Object in roadway (91) Object approaching roadway This Vehicle Traveling (92) Object—unknown location (10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection For Corrective Actions Attempted see variable GV14 (17) Crossing over (passing through) intersection (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (0) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally-rotation less than 30 (53) Traveling in opposite direction (54) In crossover (3) Skidding laterally-clockwise rotation (55) Backing (4) Skidding laterally—counterclockwise rotation (59) Unknown travel direction of other motor vehicle (7) Other vehicle loss-of-control (specify): (8) No driver present Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction) - over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction)—over right lane line 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (O) No avoidance maneuver (64) From parking lane (1) Vehicle staved in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (2) Vehicle stayed on roadway but left travel lane (66) From crossing street, across path where avoidance maneuver was initiated (67) From crossing street, turning into opposite (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was (68) From crossing street, intended path not known (70) From driveway, turning into same direction initiated (4) Vehicle departed roadway (71) From driveway, across pat 1 (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

(78) Encroachment by other vehicle—details

unknown

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

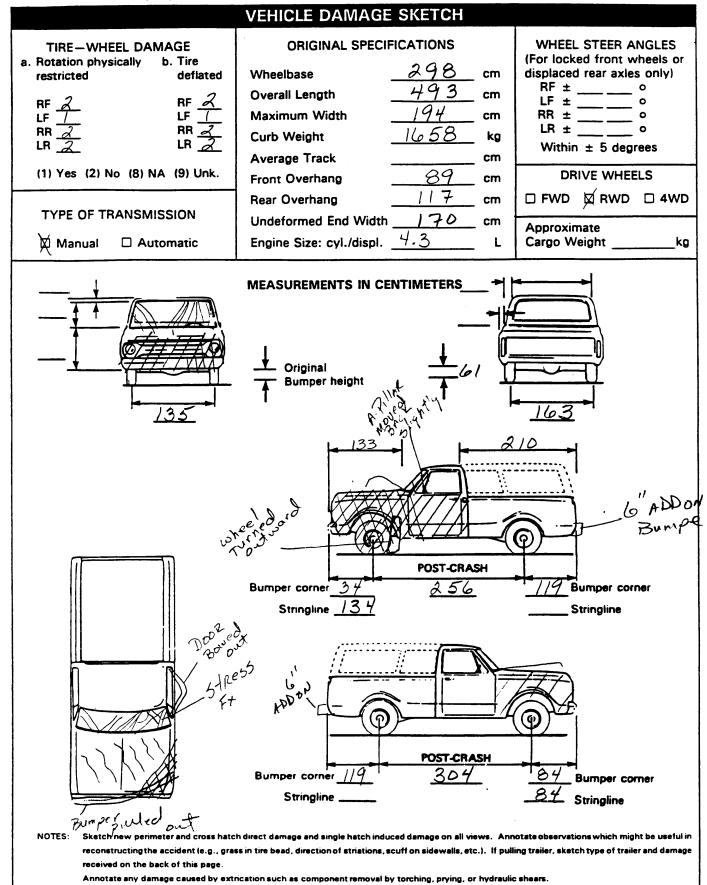


| Vetional Highw | nt of Transports vey Traffic Selet | | EX | TERIOR | VEHI | CLE I | FORM | NA | | | | 2 SYSTEM |
|------------------------------|--|--|--|--|---|--|--|--|---|----------------|-----------------------|----------|
| | ry Sampling Number - St | | 2 | <u> </u> | <u>9</u> 3 | . Vehic | le Numb | er | 0.000 | | ESS DATA | 2 |
| | | | 1 | /EHICLE | IDENTI | FICAT | ION | | | | | |
| | 6 C I | | - | | <u>z</u> | Vehicle | Model (s | specify): | | | rear <u>ê</u> Ch-e | |
| | e end of the amaged axie | | | | OCATO | | i center | line or b | oumper (| corner f | or end i | mpacts |
| | mpact No. | TOI SIGE | | of Direct D | amage | | | Lo | ocation | of Field | L | |
| | 7 | (L) E | 3C OVE | | | | Ac | R055 | us h | o/e - | Front | Bung |
| | | | | | | | | | | | | |
| | | - | | | | • | | | | | | ٠. |
| ! ! ! ! ! | dentify the pail, etc.) and Measure and Measure C1 mpacts. Free space value individuals ide taper, etc. | I label additional documents of the docu | djustments (ent on the v rom driver to defined as th tions. This ord the value | e.g., free see the control of the co | space). ram the r side in between the the fol C-measu | location front on the ballowing: lowing: prement | n of max r rear im aseline a bumper and ma | pacts arend the called, bearing the called t | rush. nd rear 1 priginal 1 umper t | o front | in side | (2.5) |
| Specific Impact Number | Plane of It C-Measure | mpact | Direct D Width (CDC) | amage Max | Field | C, | C ₂ | C ₃ | C ₄ | C ₆ | C. | ±D |
| / | Bump. | e R | 56cm | Crush & / | 130 | 81 | 33 | 18 | 3 | 0 | 0 | -57 |
| <u></u> | , | | · | | | | | | | | | |
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ORIGINAL SPECIFICATIONS WORK SHEET

| | | | • |
|--------------------------|-------------------------|---------------|--------------------------|
| Wheelbase | 117.5 inch | es x 2.54 = | 298cm |
| Overall Length | 194.1 inch | es x 2.54 = | <u>493</u> cm |
| Maximum Width | $\underline{76.4}$ inch | es x 2.54 = | $\perp \underline{4}$ cm |
| Curb Weight | 3,655 pour | nds x .4536 = | 1, 6 5 8 kg |
| Average Track | inch | nes x 2.54 = | cm |
| Front Overhang | 34.9 inch | nes x 2.54 = | <u> 29 cm</u> |
| <u>-</u> | 4 6. 1 inch | nes x 2.54 = | 1 1 7 cm |
| Undeformed End Width | $\frac{-}{70}$. inch | | |
| Engine Size: cyl./displ. | | x .001 = | |
| | CID | x .0164 = | L |
| | | | |



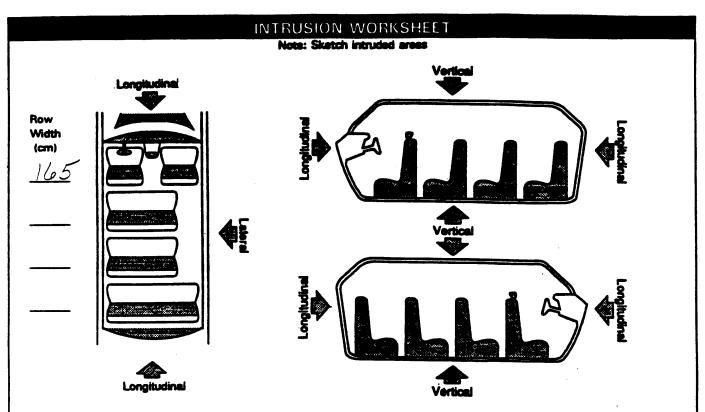
| | | | CDC V | VORKSHE | FT | | | |
|-------------|----------------|------------------------------------|-------------|--------------|-----------------------|---------------|---------------|-------------|
| | | | CDC | VOINGIL | | | | |
| | | C | ODES FOR | OBJECT COM | NTACTED | | | |
| /01-30\ | - Vehicle Nu | ımher | | 15 | 7) Fence | | | |
| (01-30) | - Verlicie IV | JIIIDEI | | • | 8) Wall | | | |
| Noncoll | icion | | | • | 9) Building |) | | |
| + | Overturn — r | ollover | | | 0) Ditch or | | | |
| | Fire or explos | | | | 1) Ground | 00.70.1 | | |
| | Jackknife | | | | 2) Fire hyd | Irant | | |
| | | it damage (specif | fv): | | 3) Curb | | | , |
| ,, | | ic camago (opcom | | | 4) Bridge | | | |
| (35) | Noncollision i | njury | | | | xed object (s | specify): | |
| | | lision (specify): | | | | _ | | |
| | | | | (6 | 9) Unknow | n fixed obje | ct | |
| (39) | Noncollision - | details unknow | vn | _ | | | | |
| | | | | | | onfixed Obje | | |
| | n With Fixed C | | | | | ehicle not in | -transport | |
| | | m in diameter) | | | 2) Pedestri | | | |
| | | m in diameter) | | | 3) Cyclist | | | |
| | Shrubbery or | | | (7 | 4) Other n | onmotorist c | or conveyand | e |
| (44) | Embankment | | | | EV 1/26/21 | | | |
| (45) | Deceleration - | -l (| !: | | 5) Vehicle | occupant | | |
| (45) | Breakaway p | ole or post (any o | liameter) | | 6) Animal 7) Train | | | |
| Nonbro | akaway Bala s | r Post | | | | disconnecte | d in transpos | _ |
| | akaway Pole o | ir Fost (≤ 10 cm in dian | neterl | | | fell from veh | | |
| | | (> 10 cm but ≤ | | | | onfixed obje | | |
| (517 | diameter) | / 10 cm but 3 | 50 Cm m | ,,, | o, othern | Omnzeu Obje | or tapectiy). | |
| (52) | | > 30 cm in dian | neter) | (8 | 9) Unknow | vn nonfixed | object | |
| | | diameter unknov | | ,,, | o, o.mo | | , | |
| (00) | , old or post | | •••, | (9 | 8) Other e | vent (specify | <i>(</i>): | |
| (54) | Concrete traf | fic barrier | | ,- | | | , . | |
| | impact attenu | | | (9 | 9) Unknow | vn event or o | object | |
| | | barrier (includes (| guardrail) | | | | - | |
| | (specify): | • | | _ | | | | • |
| | | | | | | **** | | |
| | | DEFORMAT | TION CLASS | SIFICATION E | BY EVENT N | NUMBER | | |
| | | | | | (4) | (5) | | |
| Accident | | (1) (2) | | | Specific | Specific | (6) | |
| Event | | Direction | Incremental | (3) | | Vertical or | Type of | (7) |
| Sequence | • | of Force | Value of | Deformation | or Lateral | Lateral | Damage | Deformation |
| Number | Contacted | (degrees) | Shift | Location | Location | Location | Distribution | Extent |
| Λ I | 6 1 | - 1 D | | L | V | E | ω | 05 |
| 01 | | | | | / | | <u>w</u> | <u></u> |
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| | | COLLISIO | N DEFORMA | TION CLAS | SIFICATIO | N | |
|---|---|----------------------------------|---|--------------------------------------|---|--|------------------------|
| HIGHEST [| DELTA "V" | | | | | | |
| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force | | (4) Longitudinal or Lateral Location | (5) Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent |
| 4. <u>0</u>] | 5. <u>0</u> <u> </u> | 6. <u> </u> | 7. <u>F</u> | 8. <u> </u> | 9. <u>E</u> | 10. <u>W</u> | 11. <u>0</u> 5 |
| Second Hig | ghest Delta "V | • | | | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | CRU | ISH PROFILE | IN CENTIM | ETERS | | |
| | The crush prof in the appro | file for the o | lamage described se below. (ALL N | in the CDC(s) | above should | be documente NTIMETERS.) | ed |
| HIGHEST (| DELTA "V" | | | | | | |
| 20. | 21. | | | | C ₆ | <u>C.</u> | 22. |
| 170 | 081 | <u>033</u> | <u>018</u> | <u>003</u> <u>c</u> | 000 0 | 00 | 057 |
| Second Hig | ghest Delta "V | | | | | | |
| 23. L ——— | 24. | <u>C,</u> | <u>C,</u> | | C ₆ | C _e | 25. ±D |
| | | | | | | | <u> </u> |
| | is Documented Coded on The ed File? | <u>O</u> | . Researcher's As of Vehicle Dispo (O) Not towed d vehicle dame (1) Towed due to vehicle dame (9) Unknown | esition / lue to age | <u> </u> | al Wheelbase _Code to the nearest centime Jnknown | <u>298</u> exter |
| | | | | | inches X 2. | 54 = | centimeters |

| 29. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified 30. Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown | | 34. Fuel Tank-1 Location 35. Fuel Tank-2 Location (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): |
|---|-----|--|
| 31. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank-1 33. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown | 1-0 | (9) Unknown 36. Fuel Tank-1 Filler Cap Location 37. Fuel Tank-2 Filler Cap Location (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown 38. Fuel Tank-1 Damage 39. Fuel Tank-2 Damage (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown |

| 1000 | | totalit carping cyclem cracket | | | | | _ |
|------|-----------|--|---------------|-----|-------------|--|---|
| 40. | Loca | ntion of Fuel System-1 Leakage | | 44. | | nis Vehicle Equipped With More Than Fuel Tanks? | |
| 41. | | ition of Fuel System-2 Leakage No fuel tank | <u> </u> | | | No (one or two tanks only) | |
| | | No fuel leakage | | ł | Vec | - More Than Two Tanks | ı |
| | 117 | NO TUEL leakage | | 1 | | Yes no damage to any tank or filler | |
| | Oi | and Area Of Lackage | | | 111 | cap and no fuel system leakage | |
| | | pary Area Of Leakage | | | 121 | Yes - no damage to any tank or filler | |
| | | Tank Filler neck | | | 121 | cap but there is fuel system leakage | |
| | | Cap | | | | (specify leakage location): | |
| | | | | | | (specify leakage location). | ļ |
| | | Lines/pump/filter | | | (3) | Yes damage to an additional tank or | |
| | | Vent/emission recovery Other (specify): | | ļ. | (3) | filler cap and there is fuel system leakage | |
| | (0) | Other (specify): | | | | (specify the following): | |
| | (0) | University | | | | | |
| | (9) | Unknown | | | | Type of tank | |
| | | | , | l | | Tank location | |
| 40 | 1 | Tura • | 5/ | | | Filler cap location | |
| 42. | ruei | Type-1 | _ | | | Tank damage Location of leakage | |
| 42 | F 1 | T | \mathcal{L} | | | Location of leakage | |
| 43. | ruei | Type-2 | | | / Q\ | Type of fuel Unknown if more than two tanks | ļ |
| | Sino | le Fuel Type | | | (3) | CIRCIOWIT II THOSE CHAIT (WO LAIRS | |
| | | No fuel tank | | | | | |
| | | Gasoline | | | | <u> </u> | |
| | | Diesel | | | | COMMENTS | |
| | | CNG (Compressed Natural Gas) | | | | | |
| | | LPG (Liquid Petroleum Gas) also | | 1 | | | |
| | ,0 +, | known as Propane | | | | | |
| | (05) | LNG (Liquid Natural Gas) | | | | | |
| | | Methanol (M100 or M85) | | | | | |
| | | Ethanol (E100 or E85) | | | | | |
| | | Other (Hydrogen or others) (specify): | | | | | |
| | | | | | | | |
| | Elec | tric Powered or Electric/Solar | | | | | |
| | Pow | ered Vehicles | | | | | |
| | (10) | Lead Acid Battery | | | | | |
| | (11) | Nickel-Iron Battery | | l | | | |
| | (12) | Nickel-Cadmium Battery | | ĺ | | | |
| | (13) | Sodium Metal Chloride Battery | | | | | |
| | (14) | Sodium Sulfur Battery | | l | | | |
| | (18) | Other (Specify): | | | | | |
| | | | | 1 | | | |
| | (98) | Other Hybrid (specify): | | | | | |
| | | | | | | | |
| | (99) | Unknown fuel type | | | | | |
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| •• | * CT | TOP: IE THE COS APPLICABLE VEH | 11C1 E 14 | 100 | NO: | TOWED AND WAS NOT AN AOPS ** | • |
| | | | | | | | - |
| | (I.E. | ., $GV09 = 0$ OR 9 AND $GV36 = 0$), | DO NO | T C | OMP | LETE THE INTERIOR VEHICLE FORM. | |
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| National Highway Traffic Safety | INTERIOR VE | HICLE FORM NATIONAL ACCIDENT SAMPLING SYST | |
|---|----------------------|--|----------|
| Administration | 1.0 | GLAZING . | |
| 1. Primary Sampling Unit Number | 10 | Glazing Damage from Impact Forces | |
| 2. Case Number - Stratum | 9409 | 15. WS 2 16. LF 6 17. RF 18. LR 19. RR 2 | } |
| 3. Vehicle Number | 02 | 20. BL 21. Roof 8 22. Other 8 | - |
| INTEGRITY | | (0) No glazing damage from impact forces | |
| , | 26 | (2) Glezing in place and cracked from impact forces | |
| 4. Passenger Compartment Integrity (00) No integrity loss | 06 | (S) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from | MU. |
| Yes, Integrity Was Lost Through | | impact forces (5) Glazing out-of-place and holed from impact forces | |
| (01) Windshield | | (6) Glazing disintegrated from impact forces | |
| (O2) Door (side) | | (7) Glazing removed prior to socident (8) No glazing | |
| (O3) Door/hatch (back door) (O4) Roof | | (9) Unknown if demeged | |
| (05) Roof glass | | (0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | |
| (06) Side window | | | |
| (07) Rear window (backlight) | | Glazing Damage from Occupant Contact | |
| (O8) Roof and roof glass | | 23. WS 24. LF 225. RF 26. LR 27. RR | 2 |
| (09) Windshield and door (side) | | | _ |
| (10) Windshield and roof (11) Side and rear window (side window | and backlight) | 28. BL <u></u> 29. Roof <u></u> 30. Other <u></u> | |
| (12) Windshield and side window | and backinging | | |
| (13) Door and side window | | (O) No occupant contact to glazing or no glazing | |
| (98) Other combination of above (specif | y): | (1) Glazing contacted by occupant but no glazing damage | |
| | · | (2) Glazing in place and cracked by occupant contact (3) Glazing in place and holed by occupant contact | |
| (99) Unknown | | (4) Glazing out-of-place (cracked or not) by occupant | |
| | | contact and not holed by occupant contact | |
| | • | (5) Glazing out-of-place by occupant contact and holed by | by |
| Door, Tailgate or Hatch Opening | | occupant contact | |
| , , | | (6) Glazing disintegrated by occupant contact | |
| 5. LF <u>3</u> 6. RF <u>3</u> 7. LR <u>0</u> 8. RR | <u> </u> | (9) Unknown if contacted by occupent If No Glazing Damage <i>And</i> No Occupant Contact or No | <u></u> |
| (0) No door/gate/hatch | | Glazing, Then Code IV31 Through IV46 As Ø | •• |
| (1) Door/gate/hatch remained closed an | d operational | Clazing, Then Code (Vo.) Throught to to b | |
| (2) Door/gate/hatch came open during o | ollision | • | |
| (3) Door/gate/hatch jammed shut | | Type of Window/Windshield Glazing | ` |
| (8) Other (specify): | | 31. WS \perp 32. LF $\stackrel{?}{2}$ 33. RF $\stackrel{?}{2}$ 34. LR $\stackrel{?}{2}$ 35. RR $\stackrel{?}{2}$ | <u>ر</u> |
| (9) Unknown | | 36. BL O 37. Roof O 38. Other | |
| | | (0) No glazing contact and no damage, or no glazing | |
| Damage/Failure Associated with Doo | r. Tailgate or Hatch | (1) AS-1 — Leminated | |
| Opening in Collision. If IV05-IV09 # | | (2) AS-2 — Tempered | |
| , , | | (3) AS-3 — Tempered-tinted | |
| 10. LF <u></u> 11. RF <u></u> 12. LR <u></u> 13. I | RR <u> </u> | (4) AS-14 — Glass/Plastic (8) Other (specify): | |
| (O) No door/gate/hatch or door not oper | ned | | |
| | - w · | (9) Unknown | |
| Door, Tailgate or Hatch Came Open Duri | ng Collision | | |
| (1) Door operational (no damage) | | Window Precrash Glazing Status | |
| (2) Latch/striker failure due to damage (3) Hinge failure due to damage | | 100 mm / 40 mm / 40 mm / 40 mm / | < |
| (4) Door structure failure due to damage | • | 39. WS \perp 40. LF $\stackrel{\mathcal{L}}{=}$ 41. RF $\stackrel{\mathcal{L}}{=}$ 42. LR $\stackrel{\mathcal{L}}{=}$ 43. RR $\stackrel{\mathcal{L}}{=}$ | - |
| (5) Door support (i.e., piller, sill, roof sid | | 44. BL / 45. Roof 2 46. Other 2 | |
| etc.) failure due to damage | | 77. DE _ 70. 11001 _ 70. Outel | |
| (6) Latch/striker and hings failure due to | o demege | (0) No glazing contact and no damage, or no glazing | |
| (8) Other failure (specify): | | (1)' Fixed | |
| (9) Helenen | | (2) Closed | |
| (9) Unknown | | (3) Pertially opened | |
| | | (4) Fully opened (9) Unknown | |
| Ī | | 1 187 OBLINAII | |

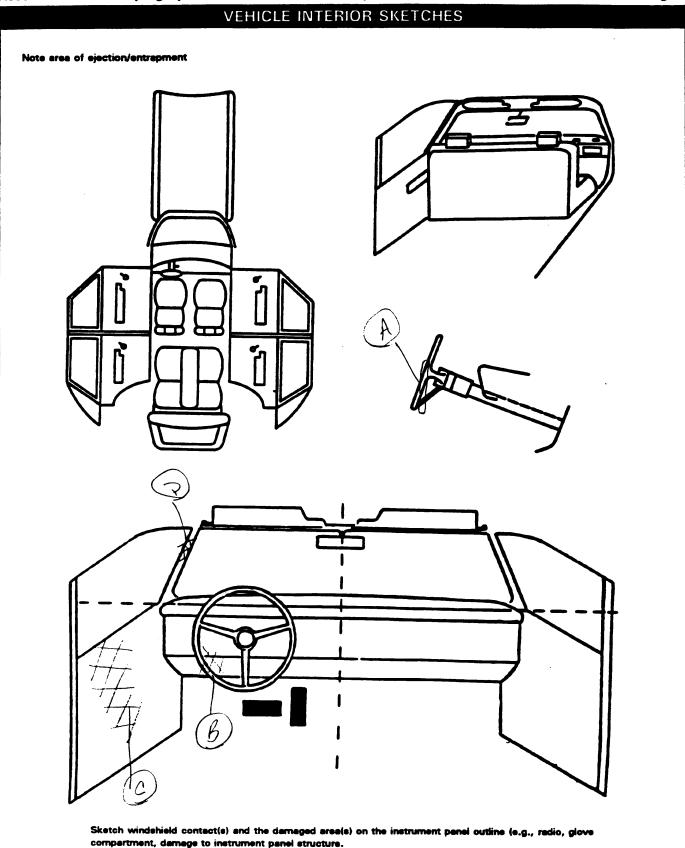


| LOCATION OF INTRUSION | INTRUDED COMPONENT | COMPARISON VALUE | Moss | urements Are in Con INTRUDED VALUE | timeters) INTRUSION | DOMINANT CRUSH DIRECTION |
|-----------------------------|-----------------------|------------------|------|--|----------------------|--------------------------------|
| 11 | A.PILLAR | 373/4 | - | 32 14 | =51/2 = 14 | L0069 |
| 11 | TOE PAN | 41/14 | _ | 36 | = 51/4" = 13 | Long |
| · 6 | , (/ / / | 36 | _ | 34 | = 2" = 5 | Longs |
| 11 | DASH | 241/2 | _ | 19/12 | = 5" = 13 | Long |
| | SIDEPANEL | 32 | _ | 25 | - 7" = 18 | LAT |
| 11 | windshield | 331/2 | _ | 28 | = 51/2: 14 | Long |
| | | | - | | = | |
| | | | _ | | | |
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OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Interior Components Dominant Location of Magnitude (01) Steering assembly Intruding Crush Component Direction (02) instrument panel left Intrusion of Intrusion (03) Instrument panel center (04) Instrument panel right 1st 47. / / 48. 2 7 49. 3 50. 3 (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51. 1 52. 0 6 53. 2 54. 2 (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top) (13) Roof side rail 3rd 55. 1 1 56. 1 4 57. 2 58. 2 (14) Windshield (15) Windshield header (16) Window frame 4th 59. 1 60. 0 2 61. 2 62. 2 (17) Floor pan (includes sill) (18) Backlight header (19) Front seat back (20) Second seat back 5th 63. 1 1 64. 0 5 65. 2 66. 2 (21) Third seat back (22) Fourth seat back (23) Fifth seat back (24) Seat cushion 6th 67. 1 2 68. 0 5 69. 1 70. 2 (25) Back door/panel (e.g., tailgate) (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar (28) Side panel - rear of the A (A2)-pillar 7th 71.___ 72.___ 73.__ 74.__ **Exterior Components** (30) Hood 8th 75.___ 76.___ 77.__ 78.___ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 9th 79.____ 80.___ 81.___ 82.___ (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.____ 84.___ 85.___ 86.___ (99) Unknown LOCATION OF INTRUSION **MAGNITUDE OF INTRUSION** (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown **DOMINANT CRUSH DIRECTION** Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic (9) Unknown

| | (All Mesourements Are i | n Cantinotare) | |
|-------------------|-------------------------|----------------|-----|
| OMPARISON VALUE - | DEFORMATION | | |
| 12 cm | - IDen | ч = | 2cm |
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| STEERING COLUMN 87. Steering Column Type | 93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation |
| (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): | Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D |
| (9) Unknown | Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke Upper Lower Lower |
| 88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown |
| | INSTRUMENT PANEL |
| 89. Blank (This posible is left blank | 94. Odometer Reading |
| (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown |
| 90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | _73576 mile x 1.8083 - 118,406 miles Source: ODOMeter |
| 91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-94 CDS. | 95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown |
| 92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters | 96. Knee Boisters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown |
| (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown | 97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown |
| | |



Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

| | | | Body | | | | Confidence |
|----------------------------|---|-----------------------------|---------------------------------------|--|----------------------|--|------------------------------|
| Contac | Interior Component Contacted | Occupant No. If Known | Body Region If Known | Supporting Ph | yşical E | vidence | Level of Contact Point |
| A | 06 | DRIVER | Chest | De forme | | | |
| В | 09 | " | (1) Knee | | Ut | | 1 |
| | 20 | 11 | TORSO | | | MED out | 2 |
| | | // | | | | teans fer | 3 |
| <u>D</u> | 22 | | HEAD | Possible s | LIN | TEATIS PER | 5 |
| E | | | | | | | |
| F | | | | | | | |
| G | | | | | | | |
| Н | | | 1 | | | | |
| ı | | | | | | | |
| J | | | | | | | |
| K | | | | | | | |
| L | | | 1 | | | | |
| | | | | | | | |
| N | | | | | | | |
| | | | | | | | |
| (03) 5 (04) 5 (05) 5 | Mirror Sunvisor Steering wheel rim Steering wheel hub/spol | | (26) Left side one or m | window glass or frame window glass including one of the following: | (47) (48) (49) | Interior loose object Child safety seat (s Other interior object | pecify): |
| | Steering wheel (combina of codes 04 and 05) | tion | | rindow eill, A (A1/A2)-pillar, or roof eide rail. | | | |
| | Steering column, tr <mark>ansm</mark> selector lever, other atte | | (27) Other let | t side object (specify): | ROOF (50) | Front header | |
| | Add on equipment (e.g., | | (28) Left side | window sill | (51) | Rear header | |
| | deck, air conditioner) | d bálou. | RIGHT SIDE | | (52) (53) | Roof left side rail Roof right side rail | |
| | Left instrument panel er Center instrument panel | | | e interior surface, | (54) | Roof or convertible | top |
| | Right instrument panel a | | | g hardware or armrests | FI 000 | | |
| | Glove compartment doo | r | (31) Right sid (32) Right A | le hardware or armrest | FLOOR (56) | Floor (including toe | nen) |
| | Knee bolster Windshield including on | e or more | (33) Right B- | | | Floor or console mo | |
| | of the following: front h | | (34) Other rig | ht pillar (specify): | | transmission lever, | including |
| | A (A1/A2)-pillar, instrun mirror, or steering asser | • | (35) Right sic | e window glass or frame | (58) | console Parking brake hand | le |
| | side only) | LETY (GIVE | | le window glass including | (59) | | |
| | Windshield including on | | | nore of the following: | | brake | |
| | of the following: front h A (A1/A2)-piller, instrum | _ | · · · · · · · · · · · · · · · · · · · | vindow sill, A (A1/A2)-pillar, or roof side rail. | REAR | | |
| | mirror (passenger side o | | • • | tht side object (specify): | (60) | Becklight (rear wind | dow) |
| (16) | Driver side air bag comp | ertment | | | (61) | • | • |
| | cover Passenger side air bag | | (38) Right sid | le window sill | (62) | Other rear object (s | іресіту): |
| | compartment cover | | INTERIOR | | | | |
| | Windshield reinforced b | y exterior | (40) Seat, ba | · · · · · · · · · · · · · · · · · · · | | | |
| | object (specify): Other front object (spec | ify)· | | raint webbing/buckle raint B-pillar | | CONFIDENCE LEV | /FI OF |
| (13) | Other from Object (spec | 11 y /. | | ent point | 1 | CONTACT PO | |
| • | _ | | (43) Other re | straint system component | | | |
| EFT SID | | _ | (specify | | | (1) Certain | |
| (20) | Left side interior surfact excluding herdwere or a | | (44) Head re- (45) Air bag | traint system (use codes "16" and "17" | | (2) Probable (3) Possible | |
| | | | | | | | |
| | Left side hardware or a | | for injur | es sustained from air bag | | (9) Unknowr |) |

compartment covers)

(22) Left A (A1/A2)-piller

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

| 1 | | | |
|-------|-----------------------|------|-------|
| | | Left | Right |
| FIRST | Availability/Function | O | |
| | Deployment | 0 | |
| | Failure | 0 | |

Air Bag System Availability/Function

- (O) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Beg System Deployment

- (0) Not equipped/not evailable
- (1) Air bag deployed during accident (as a result of impact)
- (2) Air bag deployed inadvertently just prior to accident
- (3) Air bag deployed, accident sequence undetermined
- (4) Nondeployed
- (5) Unknown if deployed
- (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (9) Unknown

Are There Indications of Air Beg System FeBure?

- (O) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

| | | Left | Right |
|-----|-----------------------|------|-------|
| FIR | Availability/Function | | |
| | Use | | |
| | Туре | | |
| S | Proper Use | | |
| } | Failure Modes | | |

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of sutomatic belt system (specify):
- (9) Unknown

Automatic (Passive) Belt Fallure Modes During Accident

- (O) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplete
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

| CHILD SVEETA SEV. | T FIELD ASSESSMENT |
|--|---|
| When a child safety seat is present enter the occupant | 's number in the first row and complete the column below Complete a column for each child safety seat present. |
| Occupant Number | |
| 1. Type of Child Safety Seat | |
| 2. Child Safety Seat Orientation | |
| 3. Child Safety Seat Harness Usage | |
| 4. Child Safety Seat Shield Usage | |
| 5. Child Safety Seat Tether Usage | |
| 6. Child Safety Seat Sp Make/Model | pecify Below for Each Child Safety Seat |
| 1. Type of Child Safety Seat | 3. Child Safety Seat Harness Usage |
| (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): | Child Safety Seat Shield Usage Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat |
| (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation | Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used |
| (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing | (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used |
| (02) Forward facing (08) Other orientation (specify): | Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used |
| Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing | Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used |
| (18) Other orientation (specify): (19) Unknown orientation | (99) Unknown if child safety seat used |
| Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): | Child Safety Seat Make/Model (Specify make/model and occupant number) |
| (29) Unknown orientation | |
| (99) Unknown if child safety seat used | |

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

| | | Left | Center | Right |
|---------------------------------|-------------|------|--------|-------|
| _ Availabi | ity | 4 | 3 | 4 |
| Evidence | e of usage | 04 | 00 | 60 |
| R Used in | this crash? | 0 | 0 | 0 |
| S Proper L | se | | 0 | 0 |
| Failure N | Modes | | | |
| Availabil | ity | | | |
| E Evidence | of usage | | | |
| C Used in | this crash? | | | |
| E Evidence C Used in N Proper L | se | | | |
| Failure N | Modes | | | |
| O Availabil | ity | | | |
| Evidence | of usage | | | |
| H Used in | this crash? | | | 1 |
| E Proper U | se | | | 1 |
| R Failure N | lodes | | | |

| Manual (Active |) Belt System | Availability |
|----------------|---------------|--------------|
|----------------|---------------|--------------|

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt
- removed/destroyed (01) Inoperable (specify):
- Shoulder belt (02)
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used - type unknown
- (08)Other belt used (specify):
- Shoulder belt used with child safety seat
- Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat -
- type unknown (18) Other belt used with child safety seat
- (specify): (99) Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety seat

Belt Used Improperty

- (3) Shoulder belt worn under arm
- Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

HEAD RESTRAINTS/SEAT EVALUATION

| NOTES: | Encode the applicable data for each seat position in the vehicle. The attribute for these variables | may |
|--------|---|-------|
| | be found at the bottom of the page. Head restraint type/damage and seat type/performance shou | ld be |
| | assessed during the vehicle inspection then coded on the Occupant Assessment Form. | |

| | | Left | Center | Right |
|-------|----------------------------|------|--------|-------|
| E | Head Restraint Type/Damage | 0 | 0 | O |
| , | Seat Type | 05 | 05 | 05 |
| R | Seat Performance | 1 | l | |
| T | Seat Orientation | | | |
| S | Head Restraint Type/Damage | | | |
| E | Seat Type | | · | |
| 0 | Seat Performance | , | | |
| Ď | Seat Orientation | | | |
| Т | Head Restraint Type/Damage | | | |
| Ĥ | Seat Type | | | |
| R | Seat Performance | | | |
| D | Seat Orientation | | | |
| 0 | Head Restraint Type/Damage | | | |
| Ť | Seat Type | | | |
| H | Seat Performance | | | |
| R | Seat Orientation | | | |

Head Restraint Type/Damage by Occupant at This Occupant Position

- (0) No head restraints
- (1) Integral no damage
 (2) Integral damaged during accident
 (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage
 (6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)**

| Complete the following if the research in the vehicle. Code the appropriate | data on the Occupant Assessme | pant was either ejected from or entrapped nt Form. |
|---|--|---|
| Describe indications of ejection and | body parts involved in partial ejec | uon(s): |
| Occupant Number | | |
| Ejection | | |
| (Note on Vehicle Interior Sketch) Ejection Area | | |
| Ejection Medium | | |
| Medium Status | | |
| Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear | (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify | (5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown |
| ENTRAPMENT No[] Yes Describe entrapment mechanism: In the and brake | | foot was stuck tween the clutch |
| Component(s): | | |
| (Note in vehicle interior diagram) | | |

Appendix F:

NASS CDS INTERVIEW FORM: CASE VEHICLE DRIVER

U.S. Department of Transportation National Highway Traffic Safety Administration

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| | 1. Primary Sampling Unit Number O Interviewee(s) Role or Name(s): GRAND father | | | | | |
|-----------|--|--|--|--|--|--|
| ļ | 2. Case Number - Stratum 9 4 0 9 of case Vehicle driver & | | | | | |
| | 3. Vehicle Number <u>01</u> <u>mother of driver</u> | | | | | |
| | Review all available information and interview questions prior to conducting interview(s) to ensure the acquisition of all pertinent data. If the driver was not the person interviewed, was an appointment made for a follow-up interview? | | | | | |
| | DRIVER'S DESCRIPTION OF ACCIDENT EVENTS | | | | | |
| · | | | | | | |
| - | He was on his way home from work. I disagree w/ the sheriffs report | | | | | |
| Ī | that was on the wrong side | | | | | |
| | of the ROAD. He was a good driver. He | | | | | |
| | got all A's never drank or snoked. | | | | | |
| - | He always wore his seatbelt. | | | | | |
| X | | | | | | |
| h_{Q_i} | The curve there at the accident site has | | | | | |
| - | a speed limit of 55 mph. The trucks | | | | | |
| ŀ | There was also someone who saw the acciden | | | | | |
| | but when the insurance guy asked them | | | | | |
| | some questions they said they didn't see | | | | | |
| | the acadent. I think someone 13 taying to | | | | | |
| | SAVE THER JOB OCCUPANT'S DESCRIPTION OF ACCIDENT EVENTS | | | | | |
| | | | | | | |
| | we have no problem with signing a | | | | | |
| | We have no problem with signing a MEDICAL Release | | | | | |
| - | | | | | | |
| - | the corsica was my car. I let him use it, | | | | | |
| - | nis was being tixed. | | | | | |
| f | | | | | | |
| į | | | | | | |

HS Form 433D (1/94)

Information collected in this report is used to complete HS Forms 433A and 433S. These reports are authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

| ACCIDENT DIAGRAM | | | | |
|------------------|------|--|---|--|
| | | The use of this serve to aid in trajectory dat orientations) tenvironment. | s diagram is optional. It may relating interviewee accident a (i.e., pre-impact to FRP o identifiable objects in the | |
| | NORT | TH | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | • | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

INTERVIEW FORM (B)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| Administration | GOASHWOKI MILESS DATA SYSTEM |
|---|--|
| 1. Primary Sampling Unit Number 10 0 9 2. Case Number - Stratum 0 0 9 | Interviewee(s) Role or Name(s): <u>GRAND</u> Father of Driver E Mother |
| | (|
| ACCIDEN | T DATA QUESTIONS |
| Can you tell me in <u>which direction you were trav</u> | eling? 6a. What actions did you take? |
| [] North [] South [] East [/] West | [] Braking with lock-up [] Braking without lock-up |
| (Optional - Where were you coming from or goin | g to? [] Releasing brakes [] Accelerating |
| In which lane were you traveling? (Note: Lane 1 is designated as the right curb land) | [] Steering left [] Steering right [] Other (specify): |
| [1] [2] [3] [4] [] Other (specify): | 7. Where was your vehicle at the time of the collision? |
| 3. Can you remember your <u>estimated travel speed</u> (in per hour) before the accident? [] Stopped [] 1-10 [] 10-20 | [] Off roadway to left [] Other (specify): |
| [] 20-30 | 8. Was your <u>travel speed at the time of the collision</u> different from your previous travel speed? |
| 4. Just before the accident, can you tell me what you intending to do or were doing? | [] No [] Lower [] Higher [] Unknown |
| [] Slowing [] Accelerating [] Turning left [] Turning right [] Changing lanes to left [] Changing lanes t | 8a. Can you estimate your speed at the time of the collision? |
| [·] Backing [] Other (specify): | [] Stopped [] 1-10 [] 10-20 UN [] 20-30 [] 30-40 [] 40-50 [] 50-60 [] 60-70 [] 70+ |
| 5. Did you experience any loss of control due to w conditions or mechanical problems? | 9. Immediately following the collision, can you describe how your vehicle moved to its stopped position? |
| [] No [] Yes (If yes, describe below) | Spun around to North |
| 6. Did you have to take any <u>avoidance actions prior accident?</u> [] No - Go to question 7 [] Yes - Go to question 6a | |

| 1. Primary Sampling Unit Number | 3. Vehicle Number |
|---|--|
| | 4. Occupant Number |
| Case Homber Countries | |
| VEHICLE/DRIVER D | DATA QUESTIONS |
| 1. Can you tell me the year, make, model of your vehicle? 1 9 9 1 Chevrolet Colsica Voer Melto Model 2. Can you describe the damage to your vehicle? Left Front corners 5 5 1 D E | 7b. Were any of the belts removed or not functional prio to the accident? [/ No [] Yes (If "Yes", specify which belt and describe problem) |
| 3. Was there any previous damage to your vehicle that is not related to this accident? [] No [] Yes (If "yes", describe below) | 8. Do any of the front belts move along a motorized trace when the door is opened or closed? [No (If "No", go to question 9) [] Yes (If "Yes", what seat location?) [] Left Front [] Right Front |
| 4. Did any of the doors (hatch, tailgate) open during the accident? [/] No [] Yes (If "Yes", describe below) | 8a. Were the motorized belts working properly before the accident? [] No (If "No", describe condition below) |
| 5. Did any of the windows break during the accident? [] No [/ Yes (If "Yes", describe below) | 8b. Were the belts connected to the track prior to the accident? [] No [] Yes [] Unknown |
| 6. Does your vehicle have a glove compartment? [] No [] Yes | 9. Do any of the front "seat" belts attach to the door such that when the door is opened the belt travels with the door? [] No (go to question 10) [] Yes |
| 6a. Did the glove compartment door come open during the accident? [] No [] Yes [] Unknown | 9a. Does this belt come across the |
| 7. Does your vehicle have "seat belts"? [] No (If "No", go to question 7b) [Yes (If "Yes", go to question 7a) | 9b. Was this belt connected prior to the accident? [] No [] Yes [] Unknown |
| 7a. Can you describe the type of seat belt for each seat? Driver's seat [] Lap [] Lap and shoulder Front seat middle [] Lap [] Lap and shoulder Front seat right [] Lap [] Lap and shoulder Rear seat left [] Lap [] Lap and shoulder Rear seat middle [] Lap [] Lap and shoulder Rear seat right [] Lap [] Lap and shoulder (Identify seat belts for third row and beyond | AIR BAGS 10. Is your vehicle equipped with a driver's side air bag? [] No (go to question 11) [] Yes (go to question 10a) [] Unknown (go to question 11) 10a. Did the air bag inflate during the accident? |

| lational Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page 4 | | | | |
|--|---|--|--|--|
| 1. Primary Sampling Unit Number 10 9 | 3. Vehicle Number 4. Occupant Number | | | |
| 2. Case Number - Suatum | 4. Occupant Number | | | |
| 12h. Were any of these items added after you owned the child safety seat? [] Yes (specify) [] No [] Unknown 12i. Were any of these items used during the accident? [] Yes (if "Yes", check all that apply) () Harness () Shield () Tether strap) [] No [] Unknown CARGO WEIGHT AND MILEAGE 13. Was there any cargo in your vehicle? [] No (if "No", go to question 14) [] Yes (if "Yes", go to question 13a) [] Unknown 13a. Can you estimate the weight of the cargo? | OPTIONAL If you do not know where the vehicle is or if the owner's permission is needed for inspection. 15. Do you know where the vehicle is currently located? | | | |
| | | | | |

| 1. Primary Sampling Unit Number 3. Ve | |
|---|---|
| 2. Case Number - Stratum 9 4 0 9 4. 00 | ccupant Number |
| VEHICLE ROLLOVE | R/FIRE QUESTIONS |
| ROLLOVER QUESTIONS | FIRE QUESTIONS |
| 1. Did the vehicle rollover during the accident? [1] No (If "No", go to question 2.) [1] Yes [1] Unknown (skip to question 2) | 2. Did the vehice experience a fire? [No (If "No", skip to Occupent Data Questions) [] Yes [] Unknown |
| 1a. Describe where the rollover began. [] On roadway [] On shoulder [] On roadside or median [] Unknown 1b. What caused the vehicle to rollover? [] Other vehicle (specify vehicle number): [] Contacted object (specify): [] Other cause (specify): [] Unknown 1c. Describe which direction the vehicle rolled. [] Toward the right [] Toward the left [] End-over-end [] Unknown | 2a. Describe where the fire started or where smoke was first seen. [] Under the hood [] Behind the instrument penel [] In the passenger compartment [] In the trunk/cargo area [] Under the vehicle [] From other involved vehicle [] Unknown 2b. Did the fire start with the electrical system? [] No [] Yes (specify): [] Unknown 2c. Did the fire start with the fuel system? [] No (If "No", skip to Occupent Data Questions) [] Yes (go to question 2d) [] Unknown |
| 1d. Estimate the number of sides (including the top and bottom) which contacted the ground during the rollover? [] 1 side [] 2 sides [] 3 sides [] 4 sides [] Unknown | 2d. Describe which part of the fuel system that may have been involved? [] No [] Yes (specify): Fuel tank Fuel lines Engine compartment (specify component if known) |
| 1e. Did the vehicle roll over more than one complete turn (more than 4 sides)?[] No (If "No", go to question 1g.)[] Yes | [] Unknown (Go To Occupant Data Questions) |
| 1f. Estimate the number of complete turns. [] No [] Yes (specify): | COMMENTS ON ROLLOVERS AND FIRES |
| 1g. When the venicle stopped rolling over, which side of the vehicle was in contact with the ground? [] Left side [] Right side [] Top [] Wheels [] Unknown | |

| National Accident Sampling System-Crashworthiness Date | a System: Interview Form (B) Page 6 |
|---|---|
| 1. Primary Sampling Unit Number / O | 3. Vehicle Number |
| 2. Case Number - Stratum. 9409 | 4. Occupant Number |
| OCCUPANT DA | TA QUESTIONS |
| 1. Was there anyone else in your vehicle at the time of the accident? [No (If "No", go to question 4) [] Yes (If "Yes", specify number in question 2 below and then go to question 3) [] Unknown | 5d. Were you (Was he/she) [] Sitting upright or [] Leaning to left side, or [] Leaning to right side? OCCUPANT EJECTION |
| 2. How many? [1] One other person [2] Two other persons [3] Three other persons [4] Four other persons [5] Five other persons [6] Six other persons [7] Seven or more other persons (specify number:) 3. Where was this person sitting? (Circle seating positions) | 6. Were you (Was he/she) or any part of your (his/her) body thrown from the vehicle during the accident? [] No (If "No", go to question 7) [] Yes (If "Yes", go to question 6a) [] Unknown 6a. Can you remember out of what area of the vehicle you were (he/she was) thrown? [] No [] Yes (Describe:) |
| [12] [13] | OCCUPANT RESTRAINT |
| [21] [22] [23] [31] [32] [33] [] Other (specify:) OCCUPANT CHARACTERISTICS 4. Can I have your (his/her) height, weight, age, and sex? | 7. Were you (Was he/she) wearing a seat belt just before the accident? [] No (If "No", go to question 8) [] Yes [] Unknown 7a. Were you (Was he/she) wearing the [] Lap belt? |
| Height 19 2 Weight 170 Age 23 Sex: [Male [] Female | [Lap and Shoulder belt? [] Shoulder belt? |
| 5. Can you tell me how you (he/she was) were sitting in your vehicle? | 7b. Can you describe how you were (he/she was) wearing the lap belt? [] Across the stomach [] Low on lap [] Other (specify:) [\(\text{Unknown} \) |
| 5a. Can you describe the location of your (his/her) feet just prior to the collision? | 7c. Can you describe how you were (he/she was) wearing the shoulder belt? [] Over the shoulder [] Under the arm [] Behind the back [] Behind the seat [] Other (specify:) |
| 25b. Can you describe the location of your (his/her) arms? He was Always a careful driver | 7d. Did any part of the belt system break or tear? [No [] Yes (If "Yes", describe) |
| | [] Unknown |
| usually both hands on wheel | OCCUPANT ENTRAPMENT |
| 5c. Was your (his/her) back resting against the seat back rest? [] No (If "No", describe the position) [Yes | 8. Were you (Was he/she) trapped in the vehicle? [] No [1 Yes (If "Yes", describe) DOORS Jamned noof |
| 1 Unknown DER MOTHER | COLASped |

National Accident Sampling System-Crashworthiness Data System: Interview Form (B)

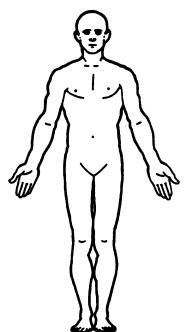
Page 7

PSU Number 10 Case Number-Stratum 9409 Vehicle Number 01 Occupant Number 01

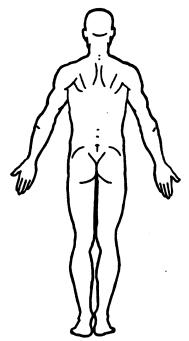
INJURY DATA FROM INTERVIEWEE(S)

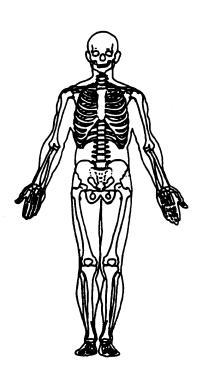
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): GRAND Father

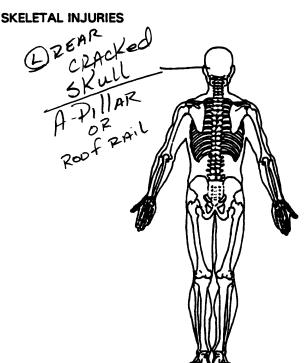
SOFT TISSUE/INTERNAL INJURIES



No broken bones No facial Injuries







The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

| . Primary Sampling Unit Number | 3. Vehicle Number |
|--|--|
| . Case Number - Stratum 9 4 0 | 4. Occupant Number |
| | JURY DATA QUESTIONS |
| 1. Were you (Was he/she) injured? | 5a. Do you know what caused this injury? |
| [] No (If "No", skip to question 7) | [] No |
| [Yes (If "Yes", complete Occupant Injury Ques | |
| [] Unknown | manikin(s).) [] Unknown |
| 2. Did you (he/she) receive any cuts, abrasions, or br | |
| [] No (go to question 3) | |
| [] Yes (If "Yes", record the exact location(s) ar | d size 6. Did you (he/she) suffer any joint sprains or musc |
| on the manikin(s).) | strains? |
| [/] Unknown | [] No (If "No", go to question 7) |
| | [] Yes (If "Yes", specify on the manikin(s), and the |
| a. Do you know what caused your (his/her) injury(: | |
| [] No | |
| [] Yes (If "Yes", specify the component(s) or ob | |
| on the manikin(s).) | 6a. Do you know what caused the injury(s)? |
| [] Unknown | [] No [] Yes (If "Yes", specify the component(s) on t |
| | manikin(s).) |
| 3. Did you (he/she) experience any broken bones? | [] Unknown |
| No (If "No", go to question 4) | |
| [] Yes (If "Yes", record the exact location(s) an | · · · · · · · · · · · · · · · · · · · |
| of fracture(s) on the manikin(s), and then | |
| question 3a.) | () No (If "No", go to question 8) (v) Yes (If "Yes", go to question 7a or return to |
| () CIRCIOWII | question 2.) |
| a. Do you know what caused the injury(s)? | |
| [] No | 7a. Were you (Was he/she) treated by (check all the |
| [] Yes (If "Yes", specify the component object(s) on the manikin(s).) | s) or apply): [/ Hospital/trauma center? (specify hospital name |
| [] Unknown | (y) Hospital/Habilla Celter/ (specify Hospital/Hallic |
| , , | [] Medical clinic |
| | [] Out patient surgery? (specify media |
| 4. Did you (he/she) injure your (his/her) head? (skull/ | |
| [] No (If "No", go to question 5) [Yes (If "Yes", describe the type of injury(s) | [/ Paramedics or first aid at the scene? on the [] A doctor in his/her office? |
| manikin(s), then go to question 4a.) | Treated at home? |
| [] Unknown | [] None of the above, go to question 8. |
| | 7b. Were you (Was he/she) treated and released from t |
| a. Do you know what caused the injury(s)? | emergency room? |
| [] No [/] Yes (If "Yes", specify the component(s) | in the [] Yes (If "Yes", go to question 7c.) |
| manikin(s).) | t tree to ten to decare to ten |
| [] Unknown | |
| | 7c. Were you (Was he/she) hospitalized? |
| P. Miller and A. Control of the State of the Control of the Contro | No (If "No", give an explanation) |
| Were any of your (his/her) internal organs injure No (If "No", go to question 6) | ? [] Yes (If "Yes", go to question 7d.) |
| [] Yes (If "Yes", thoroughly describe the t | pe of FATAL |

injury(s) and specify the internal organ(s) injured on the manikin(s), and then go to question 5a.)

[// Unknown

7d. How many days were you (was he/she) in the hospital?

| Primary Sampling Unit Number | 3. Vehicle Number | 01 |
|---|--|--------------------|
| Case Number - Stratum 9 4 0 9 | 4. Occupant Number | 01 |
| OCCUPANT INJURY DATA | QUESTIONS (CONTINUED) | |
| Have you (Has he/she) received any follow-up treatment? [] No [] Yes (If "Yes", describe:) [] Unknown | 8. Have you (he/she) lost any days from (college)? [] No [] Yes (If "Yes", determine the none (Specify:) [] Not working prior to the accidence of the lost of th | umber of days lost |
| In order to achieve the best possible scientific data regarding your (his/her) injury(s), we need to obtain a copy of your (his/her) medical reports. Would you (he/she) sign a medical release form? | | |
| Yes (If "Yes", mail or present the form for signature.) | | |
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Appendix G:

NASS CDS INTERVIEW FORM: VEHICLE #2 DRIVER



U.S. Department of Transportation

National Highway Traffic Safety Administration

INTERVIEW FORM (A)

MATIONAL ACCIDENT SAMPLING SYSTEM GRASHWORTHNESS DATA SYSTEM

| 1. Primary Sampling Unit Number | Interviewee(s) Role or Name(s): DRIVER 2 | | | | |
|--|--|--|--|--|--|
| 2. Case Number - Stratum 9409 | | | | | |
| 3. Vehicle Number <u>O</u> <u>2</u> | | | | | |
| Review all available information and interview questions prior to conducting interview(s) to ensure the acquisition of all pertinent data. | | | | | |
| If the driver was not the person interviewed, was an appointment made for a follow-up interview? | | | | | |
| DRIVER'S DESCRI | IPTION OF ACCIDENT EVENTS | | | | |
| | | | | | |
| | (21 ane ROAD) CAME OVER | | | | |
| hill saw other CAR | | | | | |
| I thought he was | going to turn but he | | | | |
| Krpt Coming at m | e I tried to Avoid him | | | | |
| by braking and si | teering Right but we hit. | | | | |
| I went off the ROAD to the right ended | | | | | |
| up on someones lawn. The other guy spyn | | | | | |
| atound and end | ed up facing the opposite | | | | |
| way he was go | ny on the edge of the | | | | |
| ROADWAY | <i>y</i> | | | | |
| | | | | | |
| ************************************** | | | | | |
| | | | | | |
| | | | | | |
| OCCUPANT'S AFE | CRIPTION OF ACCIDENT EVENTS | | | | |
| OCCUPANT S DESC | CRIPTION OF ACCIDENT EVENTS | | | | |
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| | ACCIDENT DIAGRAM | | | | | |
|---|------------------|--|--|--|--|--|
| | | The use of this diagram is optional. It may serve to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment. | | | | |
| | NORTH | | | | | |
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U.S. Department of Transportation

National Highway Traffic Safety Administration

INTERVIEW FORM (B)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| 1. Primary Sampling Unit Number | Interviewee(s) Role or Name(s): DRIVER V2 |
|---|--|
| 2. Case Number - Stratum 9 4 0 9 | |
| 3. Vehicle Number | |
| ACCIDEN | T DATA QUESTIONS |
| Can you tell me in which direction you were tra- | veling? 6a. What actions did you take? |
| [] North [] South [East [] West | [/] Braking with lock-up [] Braking without lock-up |
| (Optional - Where were you coming from or going | |
| In which lane were you traveling? (Note: Lane 1 is designated as the right curb land) | Steering left Steering right Other (specify): |
| (1) [2] [3] [4] [] Other (specify): | 7. Where was your vehicle at the time of the collision? |
| 3. Can you remember your <u>estimated travel speed</u> (in per hour) before the accident? [] Stopped [] 1-10 [] 10-20 | [] Original travel lane [] Different travel lane n miles [] In intersection [] Off roadway to right [] Off roadway to left [] Other (specify): |
| [] 20-30 [] 30-40 [] 40-50 [] 50-60 [] 60-70 [] 70+ | Was your <u>travel speed at the time of the collision</u> different from your previous travel speed? |
| 4. Just before the accident, can you tell me what yo intending to do or were doing? [Going straight [] Stopped | u were [] Ne [] Lower Sightly [] Higher [] Unknown |
| [√] Going straight [] Stopped [] slowing [] Accelerating [] Turning left [] Turning right [] Changing lanes to left [] Changing lanes to | 8a. Can you estimate your speed at the time of the collision? |
| [] Backing [] Other (specify): Coming over h on curve | [] Stopped [] 1-10 [] 10-20 [] 20-30 [] 30-40 [/ 40-50 [] 50-60 [] 60-70 [] 70+ |
| Did you experience any <u>loss of control</u> due to w conditions or mechanical problems? | 9. Immediately following the collision, can you describe how your vehicle moved to its stopped position? 5 pun around ended up |
| [No [] Yes (If yes, describe below) | Facing North, I think. |
| 6. Did you have to take any avoidance actions prior accident? [] No - Go to question 7 [] Yes - Go to question 6a | 10. Can you tell me how many collisions your vehicle had during the accident and the source of the collisions? 10. Can you tell me how many collisions your vehicle had during the accident and the source of the collisions? |
| | |

| Istional Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page | | | |
|---|--|--|--|
| 1. Primary Sampling Unit Number | 3. Vehicle Number | | |
| 2. Case Number - Stratum 9409 | 4. Occupant Number | | |
| VEHICLE/DRIVER I | DATA QUESTIONS | | |
| 1. Can you tell me the year, make, model of your vehicle? 1 9 8 8, Chey, Cheyenne New Meter Medica 2. Can you describe the damage to your vehicle? 3. Was there any previous damage to your vehicle that is not related to this accident? I No I Yes (If "yes", describe below) 4. Did any of the doors (hatch, tailgate) open during the accident? I No I Yes (If "Yes", describe below) 5. Did any of the windows break during the accident? I No I Yes (If "Yes", describe below) 6. Does your vehicle have a glove compartment? I No I Yes I Unknown 7. Does your vehicle have "seat belts"? I Jho (If "No", go to question 7b) I Yes (If "Yes", go to question 7a) | 7b. Were any of the belts removed or not functional prior to the accident? [| | |
| 7a. Can you describe the type of seat belt for each seat? Driver's seat [] Lap [] Lap and shoulder Front seat middle [] Lap [] Lap and shoulder Front seat left [] Lap [] Lap and shoulder Rear seat middle [] Lap [] Lap and shoulder Rear seat right [] Lap [] Lap and shoulder Rear seat right [] Lap [] Lap and shoulder | AIR BAGS 10. Is your vehicle equipped with a driver's side air bag? [] No (go to question 11) [] Yes (go to question 10a) [] Unknown (go to question 11) 10a. Did the air bag inflate during the accident? | | |
| (Identify seat belts for third row and beyond | [] No (go to questions 10b and 10c) [] Yes (go to question 10e) | | |

| lational Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page 3 | | |
|--|--|--|
| 1. Primary Sampling Unit Number | 3. Vehicle Number | |
| 2. Case Number - Stratum 9409 | 4. Occupant Number | |
| VEHICLE/DRIVER DATA Ω | UESTIONS (CONTINUED) | |
| 10b. Was the air bag wiring disconnected prior to the accident? | CHILD SAFETY SEAT | |
| [] No [] Yes (If "Yes", describe previous condition) | 12. Was there a person in a child safety seat in your vehicle? [1] No (If "No", go to question 13) | |
| [] Unknown | [] Yes [] Unknown | |
| 10c. Was your vehicle involved in any accidents prior to this accident which inflated the air bag? [] No (go to question 11) [] Yes (go to question 10d) | 12a. Can you tell me the manufacturer and model of the child safety seat? | |
| [] Unknown 10d. Was the air bag re-installed after the accident? [] No (go to question 11) [] Yes [] Unknown | 12b. Can you describe the type of child safety seat? [] Infant [] Toddler [] Convertible | |
| 10e. Did the air bag inflate as you expected? [] No (If "No" describe below) | [] Booster [] Other (specify): [] Unknown | |
| [] Yes [] Unknown | 12c. Where was the child safety seat(s) located? [12] [13] [21] [22] [23] [31] [32] [33] | |
| 11. Is your vehicle equipped with a passenger side air bag? [✓] No (If "No", go to question 12) [] Yes (If "Yes", go to question 11a) [] Unknown (If "Unknown", go to question 12) | [Other] (specify): | |
| 11a. Did the passenger air bag inflate during the accident? [] No (go to question 11b) [] Yes (go to question 12) | [] Rear facing [] Forward facing, [] Other (specify): | |
| 11b. Was the passenger air bag wiring disconnected prior to the accident? [] No [] Yes (If "Yes", describe below) | 12e. Was a seat belt used to hold the child seat in place? [] No (if "No", go to question 12g) [] Yes (if "Yes", go to question 12f) [] Unknown | |
| [] Unknown | 12f. Can you describe how the seat belt was secured to the child seat? | |
| 11c. Was the passenger air bag inflated in a previous accident? [] No (go to question 12) [] Yes (go to question 11d) [] Unknown 11d. Was the passenger air bag re-installed after the | [] Looped through designated rear framing struts? [] Looped through arm rest slots? [] Belt across safety shield? [] Looped through rear frame outside the designated framing struts? [] Other-(specify): | |
| accident? [] No (go to question 12) [] Yes [] Unknown 11e. Did the passenger air bag inflate as you expected? [] No (If "No" describe below) | 12g. What was the child safety seat equipped with at the time of purchase? (check all that apply) [] Harness [] Shield [] Tether strap If any box is checked, ask questions 12h - 12i. | |
| [] Yes [] Unknown | | |

| National Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page 4 | | |
|---|---|--|
| 1. Primary Sampling Unit Number | 3. Vehicle Number | |
| 2. Case Number - Stratum 9409 | 4. Occupant Number <u>0</u> / | |
| VEHICLE/DRIVER DATA O | LUESTIONS (CONTINUED) | |
| | OPTIONAL | |
| 12h. Were any of these items added after you owned the child safety seat? [] Yes | If you do not know where the vehicle is or if the owner's permission is needed for inspection. 15. Do you know where the vehicle is currently located? SAIVAGE. | |
| 12i. Were any of these items used during the accident? [] Yes (If "Yes", check all that apply) () Harness () Shield () Tether strap) [] No | 16. May I take a look at your vehicle to assess the damage? [] No [Yes | |
| [] Unknown | DRIVER ONLY | |
| CARGO WEIGHT AND MILEAGE 13. Was there any cargo in your vehicle? [No (If "No", go to question 14) [] Yes (If "Yes", go to question 13a) [] Unknown [] Unknown [] School books 13a. Can you estimate the weight of the cargo? [] Ibs. | 17. What race do you consider yourself? White Black American Indian, Eskimo or Aleut, Asian or Pacific Islander Other (specify:) Unknown. | |
| Cargo description 14. Can you tell me the mileage on the vehicle? miles | [] Yes | |
| | | |

| rtional Accident Sampling System-Crashworth | iness Data S | System: Interview Form (B) Page 6 |
|--|--------------|--|
| Primary Sampling Unit Number | | 3. Vehicle Number <u>O</u> 2 |
| 2. Case Number - Stratum 944 | 09 | 4. Occupant Number |
| OCCUP | ANT DATA | A QUESTIONS |
| 1. Was there anyone else in your vehicle at the tir accident? [No (If "No", go to question 4) [] Yes (If "Yes", specify number in question and then go to question 3) [] Unknown | | 5d. Were you (Was he/she) |
| 2. How many? [1] One other person [2] Two other persons [3] Three other persons [4] Four other persons [5] Five other persons [6] Six other persons | | 6. Were you (Was he/she) or any part of your (his/her) body thrown from the vehicle during the accident? [// No (If "No", go to question 7) [] Yes (If "Yes", go to question 6a) [] Unknown 6a. Can you remember out of what area of the vehicle you were (he/she was) thrown? |
| [7] Seven or more other persons (specify number:) | | [] No [] Yes (Describe:) |
| 3. Where was this person sitting? (Circle seating | positions) | |
| [12] [13] [21] [22] [23] [31] [32] [33] | | OCCUPANT RESTRAINT 7. Were you (Was he/she) wearing a seat belt just before |
| Other (specify:) | | the accident? [/] No (If "No", go to question 8) |
| OCCUPANT CHARACTERISTICS | 3 | [] Yes [] Unknown |
| 4. Can I have your (his/her) height, weight, age, a Height 5'3" Weight 165 Age 2 Sex: [] Male [/] Female | 8 | 7a. Were you (Was he/she) wearing the [] Lap belt? [] Lap and Shoulder belt? [] Shoulder belt? |
| 5. Can you tell me how you (he/she was) were sitti vehicle? | ng in your | 7b. Can you describe how you were (he/she was) wearing the lap belt? [] Across the stomach [] Low on lap [] Other (specify:) |
| upright bracing for | 7 | 7c. Can you describe how you were (he/she was) wearing the shoulder belt? [] Over the shoulder |
| 5a. Can you describe the location of your (his/her) prior to the collision? BRACED on clutch | 1 | [] Under the arm [] Behind the back [] Behind the seat [] Other (specify:) |
| other on brake | 1 | 7d. Did any part of the belt system break or tear? |
| 5b. Can you describe the location of your (his/her) | arms? | [] No [] Yes (If "Yes", describe) |
| Straight bracing who | | [] Unknown |
| Against Steering who | eel | OCCUPANT ENTRAPMENT |
| 5c. Was your (his/her) back resting against the seat [] No (If "No", describe the position) [] Yes [] Unknown | back rest? | 8. Were you (Was he/she) trapped in the vehicle? [] No [] Yes (If "Yes", describe) ANKLE, STUCK between to e And Dedal |
| | | [] Unknown |

National Accident Sampling System-Crashworthiness Data System: Interview Form (B)

PSU Number / D

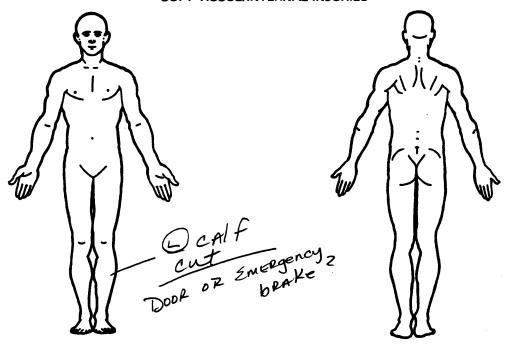
Case Number-Stratum 9409

Vehicle Number _O_O Occupant Number _O/

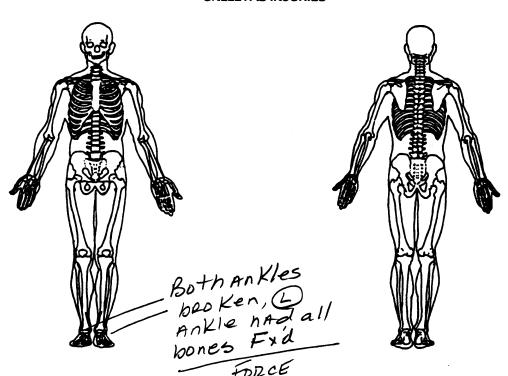
INJURY DATA FROM INTERVIEWEE(S)

Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): DRIVER

SOFT TISSUE/INTERNAL INJURIES



SKELETAL INJURIES



The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

| istional Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page 8 | | | |
|---|---|----|--|
| 1. Primary Sampling Unit Number | 3. Vehicle Number | | |
| 2. Case Number - Stratum 9409 | 4. Occupant Number OI | | |
| OCCUPANT INJURY | DATA QUESTIONS | į | |
| 1. Were you (Was he/she) injured? [] No (If "No", skip to question 7) [| 5a. Do you know what caused this injury? [] No [] Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown | | |
| Yes (If "Yes", record the exact location(s) and size on the manikin(s).) [] Unknown | 6. Did you (he/she) suffer any joint sprains or muscle strains? ['] No (If "No", go to question 7) [] Yes (If "Yes", specify on the manikin(s), and then go to question 6a.) | | |
| 2a. Do you know what caused your (his/her) injury(s)? [] No [] Yes (If "Yes", specify the component(s) or object(s) on the manikin(s).) [] Unknown 3. Did you (he/she) experience any broken bones? | [] Unknown 6a. Do you know what caused the injury(s)? [] No [] Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown | | |
| [] No (If "No", go to question 4) [] Yes (If "Yes", record the exact location(s) and type of fracture(s) on the manikin(s), and then go to question 3a.) [] Unknown | 7. Did you (he/she) receive any treatment? [] No (If "No", go to question 8) [Yes (If "Yes", go to question 7a or return to question 2.) | | |
| 3a. Do you know what caused the injury(s)? [] No [Yes (If "Yes", specify the component(s) or object(s) on the manikin(s).) [] Unknown | 7a. Were you (Was he/she) treated by (check all that apply): [Hospital/trauma center? (specify hospital name): Hosp | KE | |
| 4. Did you (he/she) injure your (his/her) head? (skull/brain?) No (If "No", go to question 5) Yes (If "Yes", describe the type of injury(s) on the manikin(s), then go to question 4a.) Unknown | [] Out patient surgery? (specify medical facility:) [] Paramedics or first aid at the scene? [] A doctor in his/her office? [] Treated at home? [] None of the above, go to question 8. | | |
| 4a. Do you know what caused the injury(s)? [] No [] Yes (If "Yes", specify the component(s) on the manikin(s).) [] Unknown | 7b. Were you (Was he/she) treated and released from the emergency room? [No (If "No", go to question 7c.) [] Yes (If "Yes", go to question 7e.) | | |
| 5. Were any of your (his/her) internal organs injured? [/] No (If "No", go to question 6) [] Yes (If "Yes", thoroughly describe the type of injury(s) and specify the internal organ(s) injured on the manikin(s), and then go to question 5a.) [] Unknown | 7c. 'Were you (Was he/she) hospitalized? [] No (If "No", give an explanation) [] Yes (If "Yes", go to question 7d.) | | |
| | 7d. How many days were you (was he/she) in the hospital? | | |

| National Accident Sampling System-Crashworthiness Data System: Interview Form (B) Page 9 | | | |
|--|-----------------------|--|--|
| 1. Primary Sampling Unit Number | 3. Vehicle Number | | |
| 2. Case Number - Stratum 9409 | 4. Occupant Number | | |
| OCCUPANT INJURY DATA | QUESTIONS (CONTINUED) | | |
| 2. Case Number - Stratum 9409 | | | |
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Appendix H:

NASS CDS OCCUPANT ASSESSMENT FORM:

CASE VEHICLE DRIVER



Form Approved

| J.S. Department of Transportation OCCUPANT ASS | ESSMENT FURM 0.M.B. No. 2127-0021 |
|--|---|
| letional Highway Traffic Befory | NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM |
| Administration | OCCUPANT'S SEATING |
| 1. Primary Sampling Unit Number | 10. Occupant's Seat Position |
| 2. Case Number - Stratum 9409 | Front Seat |
| 3. Vehicle Number | (11) Left side (12) Middle |
| 4. Occupant Number | (13) Right side (14) Other (specify): |
| OCCUPANT'S CHARACTERISTICS | (15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant |
| 6. Occupant's Sex (1) Male (2) Female (9) Unknown | Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown | Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant |
| $\frac{74}{\text{inches}} \times 2.54 = \underline{188}$ centimeters $AuToPsy$ | (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown 178 pounds x .4536 = 81 kilograms Autorsy | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another |
| 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown | occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |
| | |

| EJECTION/ENTRAPMENT | | | |
|---|---|---|--|
| 12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown | 0 | 15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown | |
| 13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown | 0 | 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown both front doors Jammed Closed | |
| 14. Ejection Medium | 0 | 7Am | |
| (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): | | | |
| (5) Integral structure (8) Other medium (specify): | | | |
| (9) Unknown | | | |
| | | | |
| | | | |

| RESTRAINT SYST | TEM EVALUATION |
|--|---|
| 17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) | 21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown |
| (8) Other belt (specify): (9) Unknown 18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used | 22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown 23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): |
| 19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat | Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts |
| Bett Used Improperty (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Bett worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown | 24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): (8) Restrained, type unknown (9) Police indicated "unknown" |
| 20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): | |

| | HEAD RESTRAINT AND | D SEAT EVALUATION |
|-----|--|---|
| 25. | Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): | 27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify): |
| 26. | Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown | (8) Other (specify): (9) Unknown |
| | | |

| | CHILD SAFETY SEAT | | | | |
|-----|---|---|--|--|--|
| 28. | Child Safety Seat Make/Model (000) No child safety seat | 31. Child Safety Seat Harness Usage | | | |
| | Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat | 32. Child Safety Seat Shield Usage | | | |
| | (997) Other make/model (specify): | 33. Child Safety Seat Tether Usage | | | |
| | (999) Unknown if child safety seat used | Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat | | | |
| 29. | Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): | Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether | | | |
| | (8) Unknown child safety seat type (9) Unknown if child safety seat used | added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used | | | |
| 30. | Child Safety Seat Orientation (00) No child safety seat | Unknown if Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used | | | |
| | Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing | (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used | | | |
| | (08) Other orientation (specify): (09) Unknown orientation | (33) ONKNOWN II CIIIIU Salety Seat USeu | | | |
| | Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): | | | | |
| | (19) Unknown orientation | | | | |
| | Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): Unknown orientation | | | | |
| | (99) Unknown if child safety seat used | | | | |
| | | | | | |

| | INJURY CONSEQUENCES | 38. Working Days Lost 62 |
|-----|---|--|
| 34. | Injury Severity (Police Rating) | Code the number of days (up through 60) that the occupant |
| | (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown | lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown |
| | (6) Died prior to accident (9) Unknown | STOP - GO TO VARIABLE 44 ON PAGE 7 |
| 35. | Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): | 39. Time to Death Code number of hours from time of |
| | Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify): (9) Unknown | accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown |
| | Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown | 40. 1st Medically Reported Cause of Death 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): |
| | | 43. Number of Recorded Injuries for This Occupant 12—Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured |

| | AUTOMATIC BELT SYSTEM | | 48. | Automatic (Passive) Belt Failure Modes |
|-----|--|------|-----|--|
| 44. | Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown | 0 | 70. | During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): |
| 45. | Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or | 0 | | (9) Unknown |
| | rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown | | 49. | Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| 46. | Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system | 0 | | |
| | (9) Unknown | | | Check the Primary Source Used In Determining Belt Use. |
| 47. | Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat | ٥ | | [] Not equipped/not available/destroyed or rendered inoperative [V] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): |
| | Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn | | | [] Unknown if belt used |
| | on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): | | | |
| | (8) Other improper use of automatic belt syste (specify): (9) Unknown | | | |
| | ARE ALL APPLICABLE MEDICAL RI WITH INITIAL SUBMISSION? | ECOF | RDS | INCLUDED NO[] YES [/] |
| | UPDATE CANDIDA | TE? | | NO [YES [] |

| | | | | BELT USE DETERMINATION | |
|-----|--|-----|-------------------|--|---|
| | OP-VARIABLER BUTHROUGH SCARE MPLETED BY THE ZONE CENTER | 53. | (O) | nary Source of Belt Use Determination Not equipped/not available/destroyed or rendered inoperative | 1 |
| | TRAUMA DATA | | | Vehicle inspection Official injury data | |
| 50. | Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown | | (3) (8) (9) | Oriver/occupant interview Other (specify): Unknown if belt used | |
| | (99) Unknown if injured | | | | |
| 51. | Was the Occupant Given Blood? (1) No - blood not given Lots of IVs (2) Yes - blood given but no blood (specify units): but no blood (9) Unknown if blood given | | | | |
| 52. | Arterial Blood Gases (ABG) – HCO ₃ / 9 (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured | | | | |
| | Base Excess -11.2 | | | | |
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Appendix I:

NASS CDS OCCUPANT INJURY FORM:

CASE VEHICLE DRIVER

Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

O

3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

INJURY DATA

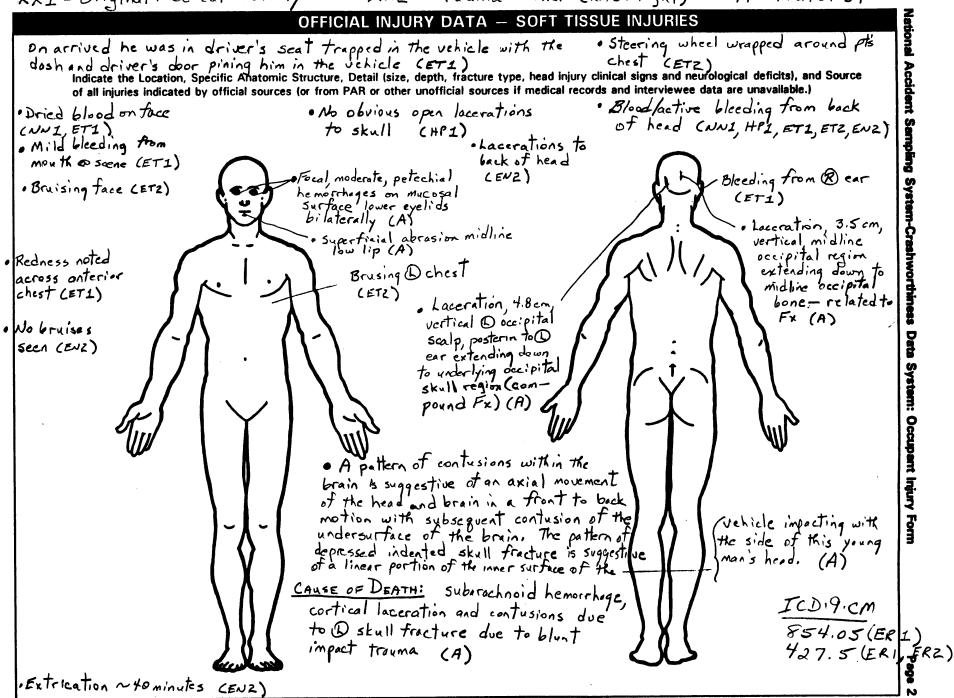
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | | | | | A.I.S 9 | 90 | | | | Injury | | Occupant |
|-----------------------|------------------------------|-----------------------------|----------------|----------------------------------|----------------|-----------------------|--------------------|----------------|------------------|-------------------------------|-------------------------------|-----------------------------|
| | | Source of Injury Data | Body Region | Type of Anatomic Structure | | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Source Confidence Level | Direct/ Indirect Injury | Area Intrusion Number |
| Concussi | <i>o</i> r) 1st | 5. <u>3</u> | 6/ | 7. <u>6</u> | 8. <u>0 8</u> | 9. <u>2 4</u> | 10.5 | 11.0 | 12. 23 | 13. 2 | 14. <u>/</u> | 15. <u>99</u> |
| Contusion | 5 (L) 2 2nd | 16 | 17 | 18. <u> </u> | 19. <u>06</u> | 20. <u>1</u> 2 | 21. 3 | 22. 2 | 23. <u>7 3</u> | 24. 2 | 25 | 26. <u>99</u> |
| Intravent hemorrha | ricular ge ^{3rd} | 27. <u>/</u> | 28. / | 29. <u>4</u> 3 | 30. <u>0</u> 6 | 31. <u>7</u> <u>8</u> | 32. <u>4</u> | 33. <u>9</u> * | 34. <u>73</u> | 35. <u>2</u> | 36 | 37. <u>9</u> 9 |
| Subarac hemorrh | hnoid | 38 | 39. <u> </u> | 40. 4 | 41. 0.6 | 42. <u>84</u> | 43. <u>3</u> | 44. / | 45. <u>23</u> | 46. <u>2</u> | 47. <u> </u> | 48. 99 |
| | | | | | | | | | 56. <u>23</u> | | | |
| <i>-</i> | | | | | | | | | 67. <u>23</u> | | | |
| Locerati Spleen | , 0 7th | 71. <u> </u> | 72. <u>5</u> | 73. <u>4</u> | 74. <u>42</u> | 75. <u>2 4</u> | 76. <u>3</u> | 77. <u>2</u> | 78. <u>2 </u> | 79. <u>2</u> | во. <u>/</u> | 81. <u>99</u> |
| Depresso Voult Fo | d Bth | 82. / | 83/ | 84. <u>5</u> 1 | 85. <u>0 4</u> | 86. <u>0 4</u> | 87. <u>3</u> | 88. <u>2</u> | 89. <u>23</u> | 90. <u>2</u> | 91 | 92. 99 |
| | | 93. <u>/</u> | 94/ | 95. <u>5</u> | 96. <u>0</u> 2 | 97. <u>0 0</u> | 98. <u>3</u> | 99. <u>8</u> | 100. 23 | 101. 2 1 | 02 1 | oз. <u>99</u> |
| F\$ 55 | þ | | | | | | | | 111. <u>45</u> | | | |
| | / | | | | | | | | | | | |

HS Form 433B (1/94)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

| | | | | occ | UPANT | INJURY | DATA | | | | |
|----------------------|-----------------------------|----------------|----------------------------------|---|--------------------|--------------------|--------------|------------------|---|-------------------------------|--|
| | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupan Area Intrusion Number |
| i.g 11th | 6 | <u>2</u> | 9 | 04 | 02 | | 9 | 45 | <u>2</u> | | 0.0 |
| ising 12th 2st | 6 | 4 | 9 | 04 | <u>0</u> 2 | | 2 | 41 | <u>2</u> | _/ | 00 |
| 13th | | | _ | | | | - | | · · · · para | | |
| 14th | | _ | _ | - | | | | | | _ | |
| 15th | | | _ | | | | · — · | | - | | |
| 16th | | ****** | _ | | . | | | | | | |
| 17th | | _ | _ | | | _ | _ | | | | |
| 18th | _ | _ | _ | | <u></u> | _ | | | : | | |
| 19th | | _ | | | | _ | | - | | | |
| 20th | _ | | | | | _ | | | | | · . |
| 21st | | _ | | | | | | | _ | _ | |
| 22nd | | | · | | | | _ | | — | _ | |
| 23rd | _ | | | | | | _ | | | | |
| 24th | | _ | _ | | | | | | | | |
| 25th | | _ | | | | | | | | • | |



(61) Backlight storage rack, door, etc. SOURCE OF INJURY DATA (25) Left side window glass or frame (26) Left side window glass including (62) Other rear object (specify): OFFICIAL (1) Autopsy records with or without hospital/ one or more of the following: trame, window sill, A (A1/A2)-piller, medical records B-piller, or roof side rail. **EXTERIOR of OCCUPANT'S VEHICLE** (2) Hospital/medical records other than (27) Other left side object (specify): (65) Hood emergency room (e.g., discharge (66) Outside hardware (e.g., outside summary) (3) Emergency room records only (including (28) Left side window sill mirror, entenna) (67) Other exterior surface or tires associated X-rays or other lab reports) (specify): (4) Private physician, walk-in or emergency RIGHT SIDE (68) Unknown extenor objects (30) Right side interior surface, excluding hardware or armrests EXTERIOR OF OTHER MOTOR VEHICLE UNOFFICIAL (31) Right side hardware or armrest (32) Right A (A1/A2)-pillar (70) Front bumper (5) Lay coroner report (33) Right B-piller (71) Hood edge (6) E.M.S. personnel (34) Other right pillar (specify): (72) Other front of vehicle (specify): (7) Interviewee (B) Other source (specify): (35) Right side window glass or frame (73) Hood (9) Police (36) Right side window glass including (74) Hood omement one or more of the following: (75) Windshield, roof rail, A-pillar frame, window sill, A (A1/A2)-pillar, (76) Side surface **INJURY SOURCE** (77) Side mirrors B-piller, or roof side rail. (37) Other right side object (specify): FRONT (78) Other side protrusions (specify) (01) Windshield (O2) Mirror (79) Rear surface (38) Right side window sill (80) Undercerriage (03) Sunvisor (81) Tires and wheels INTERIOR (04) Steering wheel rim (82) Other exterior of other motor vehicle (05) Steering wheel hub/spoke (40) Seat, back support (41) Belt restraint webbing/buckle (specify): (06) Steering wheel (combination (42) Belt restraint B-piller or door frame of codes 04 and 05) (83) Unknown exterior of other motor vehicle (07) Steering column, transmission attachment point selector lever, other attachment (43) Other restraint system component (08) Add on equipment (e.g., CB, tape (specify): OTHER VEHICLE OR OBJECT IN THE (44) Head restraint system ENVIRONMENT deck, air conditioner) (45) Air bag (use codes "16" and "17" for injuries (84) Ground Left instrument panel and below sustained from air bag compartment covers) (85) Other vehicle or object (specify) (10) Center instrument panel and below (11) Right instrument panel and below (46) Other occupants (specify): (86) Unknown vehicle or object (12) Glove compartment door (47) Interior loose objects (13) Knee boister (14) Windshield including one or more NONCONTACT INJURY (48) Child safety seat (specify): (90) Fire in vehicle of the following: front header, (91) Flying glass (49) Other interior object (specify): A (A1/A2)-pillar, instrument panel, (92) Other noncontact injury source mirror, or steering assembly (driver (specify): side only) ROOF (93) Air bag exhaust gases (15) Windshield including one or more of the following: front header, (50) Front header (97) Injured, unknown source A (A1/A2)-pillar, instrument panel, or (51) Rear header mirror (passenger side only) (52) Roof left side rail INJURY SOURCE CONFIDENCE Driver side air bag compartment cover (53) Roof right side rail LEVEL Passenger side air bag compartment cover (64) Roof or convertible top (1) Certain Windshield reinforced by exterior object (18)Probable (2) **FLOOR** (specify): Possible (3) (19) Other front object (specify): (56) Floor (including toe pan) Unknown (9) (57) Floor or console mounted transmission lever, including LEFT SIDE console **DIRECT/INDIRECT INJURY** (58) Perking brake handle (20) Left side interior surface. (1) Direct contact injury (59) Foot controls including parking excluding hardware or armrests Indirect contact injury (21) Left side hardware or armrest brake Noncontact injury (22) Left A (A1/A2)-piller Injured, unknown source (23) Left B-pillar REAR (24) Other left piller (specify): (60) Backlight (rear window)

OCCUPANT INJURY CLASSIFICATION **Body Region** Specific Anatomic Structure Abbreviated Injury Scale <u>Spine</u> (02) Cervical Head Whole Area (02) Skin - Abrasion (04) Thoracic Minor injun Moderate injury (2) Face (2) (3) (4) (5) (3) (4) Neck (04) Skin - Contusion Serious injury Thorax (06) Skin - Lacuration Vessels, Nerves, Organs, Bones, Joints are assigned consecutive Severe injury Abdomen (08) Skin - Avusion (5) Critical injury two digit numbers beginning with 02 (6) Spine (10) Amoutation (6) Maximum (untreatable) Upper Extremity (20) Burn (7) injured, unknown severity Lower Extremity Level of Injury (8) (30) Crush Unspecified (40) Degloving Aspect (50) Injury - NFS Specific injuries are assigned Type of Anatomic Structure (90) Trauma, other than mechanical consecutive two-digit numbers 111 Right beginning with 02. Left (1) Whole Area Head - LOC (02) Length of LOC (3) (4) Bilateral To the extent possible, within the Central (3) (4) Nerves (04, 06, 08) Level of Consciousness organizational framework of the Anterior

AIS. 00 is assigned to an injury

NFS as to severity or where only

one injury is given in the dictionary

for that anatomic structure. 99 is assigned to any injury NFS as to

lesion or severity.

(6) (7)

(8)

(9)

Posterior

Superior

Unknown

Whole region

Interior

Organs (includes muscles/

Skeletal (includes joints)

ligaments)

Head - LOC

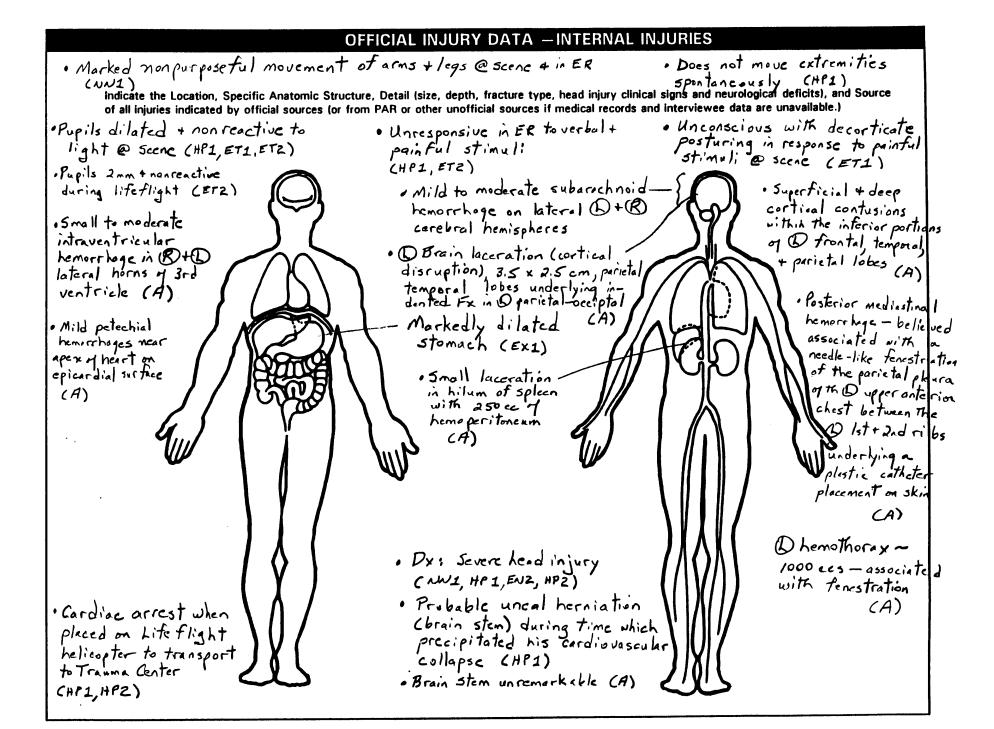
Skin

(5)

(6)

(9)

(10) Concussion



Hospital Medical Records [Initial Treatment Facility]

| | ADMISSION | | | | | | | | | | | | PITA | <u>L</u> | | | | | |
|-------------------|------------------|-----------------|------------------|----------------|---------------------------------------|---------------|------------|------------------|----------------|----------|---------------------------------|------------|--------------|------------|-----------|-----------|----------------|-----------|--------------|
| | TS LAST NAME | | | FIRST NAM | iE - , | MI و م | DDLE NAME | | M | AIDEN NA | ME | | BIRTH DATE | | 1 | CENTER | ROOM-BED | Ī | ADAT FF. V |
| | ADDRESS | | R OR BOX NO. | | Crr. | | | TATS | | 71 | · | | TELEPHONE I | | 231 | GION | , - | OCCUPAT | <u> </u> |
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| <u> </u> | He histor Olia yellon | / 2 | | PAD COUNT HEME TEST • |
| ! | · Julian | 2 | MANAGEMENT 2 ALTERED FAMILY PROCESSES | SOURCE |
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- PHYSICIAN'S ED RECORD

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- S: This patient is a 23 y/o white male who was brought into the ER by ambulance with paramedics after being involved in an automobile accident. He was the driver in one of the cars in a two car head-on collision. It was reported to me verbally by the paramedics that he had on both seat belt and an air bag which had deployed. He apparently sustained significant head injuries at the scene. Paramedics reported at the scene that his pupils were both dilated and non-reactive to light. When I examined him in the ER he was unresponsive. There was some bleeding from the back of the head from some apparently minor lacerations. He did not move any extremities spontaneously. Past medical history from his grandparents is that he was in generally good health, took no medications, and had no allergies.
- O: Physical examination revealed a young white male who was unresponsive to both verbal and painful stimuli. He does not move extremities spontaneously.

 HEENT: He is normocephalic. There is some minor bleeding from the posterior scalp. There were no obvious open lacerations to the skull. When I examined him initially his pupils were mid-position and unreactive. Doll's eyes were absent. Ears showed no otorrhea and no lacerations. Nose showed no rhinorrhea. Fundi was not well seen but appeared normal.

Neck: The patient was wearing a cervical collar which was not removed. There were no obvious lacerations on the neck on inspection through the collar.

Chest: There was an apparent small flail chest deformity over the left lateral chest wall with some paradoxical movement. However, chest x-ray was reviewed and I could not see this on repeat chest x-rays. His lung markings were visible out to the peripheral lung. He had good air movement through this area. No other chest abnormalities were noted. The lungs were clear to auscultation.

Heart: He initially had a regular rhythm without murmur, gallop, or rub.

Abdomen: Soft. Non-tender. There was no obvious guarding. Bowel sounds were present.

External Genitalia: Grossly normal.

-Supremental Andrews

Extremities: No obvious deformities. No lacerations or abrasions. No other abnormalities noted.

Skin: Warm and dry. No obvious lesions other than those noted above.

Neurological: He is unresponsive to verbal and tactile stimuli. There is no spontaneous movements of any extremities. He does not have any abnormal posturing.

A: 1. Severe head injury. 2. Possible flail chest without ventilatory compromise.

Course in the ER:

, him is a company year

The patient was stabilized in the ER and readied for transport by air ambulance to Hospital in the III. IN, where a neurosurgeon was awaiting his arrival. patient was stable from a cardiovascular standpoint. Upon leaving the ER he was taken to the air ambulance pad and placed on board the helicopter. Shortly after placing him on the helicopter before takeoff he had a cardiac arrest. He had several different rhythms including ventricular fibrillation and finally an EMD. Resuscitative efforts were carried out. Please see the CPR record for precise drugs, etc. A chest thoracentesis was performed without evidence of pneumothorax and it did not alter his course. Following multiple resuscitative efforts including repeated doses of IV Epinephrine including high dose IV Epinephrine and multiple defibrillations the patient was maintaining a very thready, weak pulse and a low blood pressure. It was felt at this point that we had nothing else that we could do to stabilize him at this facility and that his only hope for survival would be in transferring on to the hospital in for further more intensive trauma support and neurosurgical support. This was in agreement among the members of the CPR team and he was transferred on in the helicopter to the lit was my impression that he probably herniated his brain stem during the time which precipitated his cardiovascular collapse. IMPRESSION: 1. Severe head injuries. 2. Suspected uncal herniation. 3. Cardiac arrest secondary to #2. France The patient was transferred in critical condition via heliconter with paramedia and a flight nurse in attendance to Hospital. Even though the

| chance of survival if we kept him h further and more intense therapy. | ere and ti | hat his only hore would be t | rapoter for | |
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patient's condition was extremely critical I felt at this point we had no hope of any

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EMERGENCY DEPARTMENT

CONTINUOUS CARE NOTES

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CODE RECORD

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| INITIAL ASSESSMENT | • | | | | | | | | |
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| NOTIFICATIONS: | | | | | | | | | |
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| MD Arrived: | Time: Cinapital | _ | | | | | | | |
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| Nurse's Signature | RA | i. | | | | | | | |
| Doctor's Signature | | | | | | | | | |

HOSPITAL

EMERGENCY DEPARTMENT

CONTINUOUS CARE NOTES

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HOSPITAL CODE FLOW SHEET

| TIME | STATE OF THIM | HEART RATE | BLOOD PRESSURE | CARDIOVERT | DEFIBRILLATE | ATROPINE | BRETYLLI MEDINGARINE | CALCIUM CHLORIDE | DOPAMINE | ISUPREI. | LIDOCAINE | PRONESTYLSUILLI | SODIUM BICARB | COMMENTS |
|------------------|---------------|------------|----------------|------------|--------------|----------|----------------------|------------------|-----------------|----------|-----------|-----------------|---------------|--------------------|
| lcia | Em3 | 40 | | | | | Te | ren | , | | | <u> </u> | | Proits Blows |
| 1013 | 1-til | | | | | | 1000 | | | | | | | apins 1900cie |
| 017 | | | | | | | - Drab | | | | | | | |
| 014 | Emo | | | | | Inc | • | | | | | | | |
| 091 | | | | | | 0 | ·AZ | | | | | | | |
| 0 <i>99</i> | | | | | 200 | | | | | | | | | NeDulse |
| EW | | | | | 300 | Ing | | | | | | - | | No pulse |
| 460 | | | | | 3.0 | 0 | - amo | | | | | | | |
| ०३८ | | | | | 360 | | | | | | 1000 | _ | | No Dulse |
| <i>S</i> & | | | | | | | <u>ı</u> IAmp | | | | | 0 | | |
| ràc _l | | | | | 360 | | 14516 | | | | | | | No Pulse |
| <i>७५</i> ० | | | | | 340 | | <u>ii</u> Amp | | | | | | | No Pulse |
| 160 | | | | | | | | | | | | | | heile Thomas |
| (५३) | | | | | 340 | | | | | | | | | No Pulse |
| 033 | | | | | | | | | | | | 24m | | |
| ०३८ | Throusey | | | 1 | | | | | | | | | | Deternal free more |
| 1044 | | | الما | | | | | | Office Cross | | | | | |
| | i | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| lurse's | Signatul | | | | | | R | \overline{C} | | | - | , | • | |

^{*} All Medications are given IV unless exherwise indicated.

| DATE DRAWN | : 194 | | (103) | |
|----------------------------------|------------|-----------|---------------|--------------------------|
| TIME DRAWN | : .09:35 | | LOCAT | ION LRI |
| TIME ANALYZED | : 09:39 | | AGE | : () |
| SAMPLE | : Arterial | | PHYSI | CIAN: |
| STUDY NO | : 1 | | DRAWN, | /ANALYZED SY: 🚃 |
| SITE | : LB | • | NEDIC | AL RECORD # |
| POTTEMP | : 98.6°F | | | |
| | | RESULTS | UNITS | NORMA! VALUES |
| 8011 | | 7.084 * | | 7.37 7.43 |
| - COS TEMOT <mark>on (</mark> PC | 02) | 63.4 * | MMHC | 35 - 45 |
| CONTENSION (PO2 | ?) | 178.0 * | MMHG | 76 - 26 (ROOM ATR) |
| THUMARONATE CH | :03) | 19.1 * | MERZ! | 27 |
| - MAGE EXCESS (BE | 1) | -11.2 * | MEQZU | 0 4/- 2 5 |
| - APPROXIII AUV-ART | |) 168.8 | MMHG | < 20 (ROOM AIR) |
| OF BATURATION (| \$.02Hb | 98.7 | (2) (4) | 5 (4) |
| H PROFOUN | · | 15.4 | AiM. | 1.75 mm a 44. |
| CAPTOXYDEMOCLOS | an a | -0.1 | | 0 - 3 |
| METH MOGLOBIA | | 0.1 * | 4.5 | 0 3 |
| 02, CONTENT | | 21.1 | SJCV | 70 - 54 |
| O COMOTY | | 21.4 | V 0 U% | ଓ ଓଡ଼ _{୍କିକ} ଅବ |
| COMMUNISH ED | | | | |
| FROFFRED 02 | | 60.0% | | • |
| DEVICE. | | Cannula | | LITER FLOW: 10.00 |
| THE RESERVE OF STREET | 2.860° | | | |
| W. 1 | Pikty | AC . | | |
| - 1 37 | OFFICE | 19th 15th | | |
| | | | | |

COMPUTER INTERPRETATION

CONTINUE MIA LO PROCEDE MICHEAN E 02 OF 760 ON

THE PH IS IN THE EXTREMELY SEVERE ACIDEMIC RANGE

THERE TO A MODERATE CLEVATION IN THE CARBON DEOXADE ECHDICK

THE BASE EXCESS IS MARKEDLY REDUCED

The Arms of the State of the American

COMBINED METABOLIC AND RESPIRATORY ACIDOSIS

| X-I | RAY REQUEST | | | | | | HOSPITAL |
|-------------|-----------------------|---------------|---------|-----------|-----------------|----------------------|--------------------|
| TRANSPORT | EXAMINATION REQUESTED | | | | | | |
| □ WALK | 1) Chest | | | | | | |
| □ wc | 2) | | | | | | |
| ☐ STRETCHER | 3) | | | | | | |
| PORTABLE | 4) | | | | | | |
| | | | | | | | |
| BIRTHDATE | | ☐ YES ☐ NO | 23 | SEX | PREVIOUS RADIO | DLOGY STUDIES | ORDERING PHYSICIAN |
| ☐ INPATIENT | ADMITTING DX: MYA | | | CHIEF COI | MPLAINT PERTINE | ENT TO EXAM ORDERED: | |
| OUTPATIENT | | | | | | | |
| E.R. | TECHNICIAN | REQUES | STED BY | | PATIENT FILE | E NUMBER CONTRACTOR | DATE SHRVIGE |

HOCDITAL

PORTABLE CHEST X-RAY IN AP VIEW: Two views of the chest shows no evidence of infiltrates or pneumothorax. No definite evidence of rib fracture is seen. A small portion of the apex is not included in the film. Heart size is within normal limits. There is no pleural effusion. There is marked dilatation of the stomach.

IMPRESSION: No acute infiltrates or pneumothorax seen. No evidence of rib fracture is demonstrated. Markedly dilated stomach.

| M.D. | | /94 |
|-------------|----------------|------|
| FADIOLOGIST | TRANSCRIBED BY | DATE |

| | | | | | | | |
|---|--|-----------------|--|---|--|---|-----------------------------------|
| MO DAY YE PICKLIP LOCATIO | 28 | | | | CO CODE | Incident) A | MBULANCE SERVICE LICENSE |
| | | | | | 0 | | |
| L VA | | | | | 1014 | 18/1 " | |
| | | | | | | | |
| TIME (Military: | MILEAGE RECORD (Odor | meter Reading: | NATURE OF RUN | _ | RUN | | <u> </u> |
| Call Received 083 | At Start |) | Dispatch | | | | |
| Dispatch 083 | 4 At Scene | \(\frac{1}{2}\) | 1. | | RUN TYPE 1. Scene to E | . 🖆 | RUN COMPLET! |
| Arrive Scene 084 | 4 At Destination ? | 5 2 2 | ! Iransport | | 2 Facility to | Facility | 2 No Pt Ret |
| 10/21/2 | A 5 | र टि | 1 Emergency | | 3 Facility to | | 3 No Trispt POV 4 No Cancelled |
| Depart Scene U 7 | At Base | <u> </u> | 2 Non-Emerge | encı | 5 Scene to A | or Ambulance | 5 No Faise Run 5 No Amt Acc |
| Arrive Destination 0 9 / | Highest Level of Care Pro- | _ | VEH LICA | | 6 Air Ambul | | 7 No Amb Ia 8 No CNL |
| Return to Service 09/ | 7 1 ALS 2 BLS 3 Convale | scent | VEH ID | | Other (Na | r | 9 No Corone: 0 No Other (Narr |
| PATIENT'S NAME (FIRST) | (MI) _ (Last) | | DRIVERATTENDANT . | | | rtificate e | EMERGENCY WARNIN |
| | | | | | | | EQUIPMENT USED |
| ADDRESS | | | DRIVERATTENDANT! | | | | 4 |
| | 5 1 | 4. | DRIVERALITENDANI | | | | TO SCENE FROM SCENE |
| CITY | 13Y | - 44 | | | | | |
| CITY | 2.8 | 0 - 7 | DRIVERATTENDANT | | | · · · · · · · | LICHTS |
| Kr | | 3- | | | | | SIREN T |
| TELEPHONE REX | / DOB | AGE [| DRIVERATTENDANT | | | <u> </u> | 1 |
| | <u> </u> | 23 . | • | | | | NONE |
| 1 M | | ×-> 1 | | | | | |
| VITAL SIGNS Could not be take | PATIENT'S ALLERGIES - A | MEDICAL ALER | | | | | |
| Not taken | | OICHL ALEK | None | PATIENT'S | MEDICATIONS | | None Unknown |
| Time 8:55 | · · | | Unknown | | | | |
| | | | Unknown | | • | | |
| BP 150/50 | CHIEF COMPLAINT | | | | | | |
| Pulse Tapid | | | | | | | |
| 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | — i i i i | • | ' | | | | |
| Resp C> L | 1 Head | injur | / | | | | |
| 72 V/2 2 'a | | | | | | | |
| CASE NARRATIVE 25/00 MV | plyed in a tu | 20 Car | read-on | MVA | . Untry | UUM | INJURY AREA |
| | nthe drivers | | | | | | (Circle Location) |
| | | :SE0-1- | 7.3 | | retucio | | _ |
| chish a drivers doir | Pining him in 7 | the ver | in it is a policy | THE VEI | nich w | مد مل مد | |
| | - 1 | 11 | , , | 11 | <i>)/- //- W</i> | as obvirs | |
| on the drivers side | tront of nown. | the dri | vers side in | cludine | a the do | or) HE-1 | |
| Unmarrials reson | co to Brocul o | 1:00.1 | 10 - dans 1 . | 1. 8 | | - 4. | 4 |
| 27 27 | SE TO TOUTEN | TIMUI | C DECOMPC | ate p | 05+Uru | a Shin | 4/5/13 |
| W/D. +UHIS-Equal-0 | dilatel cthe | Cide-5 | ilaus to react | . hoh | as ma | المطالم | 1 1 1 |
| Carallalis | 1 - 1 - 1 | | - Leading | | 43 11 12 | · Localing | \ \ \ \ |
| from the back of | his head mild | bkedu | 19 From his | Mout | h dryed | blood | (9) |
| around hic Donosteil | ? bleeding from | De | CBC Lil | 1 1 | 1 | _ | · \{\} |
| C. L. C. C. C. C. C. C. C. C. C. C. C. C. C. | : DIEMING FYON | n w ca | n Da G | tera1 | MV/C | | _ w |
| Udventitious Soun | ds Trachea- | Midlin | ne. Noted r | -odne | ss acro | ss his | Non injury |
| anterior chest vs | 180/90-rapid. | - 211 1 | | | | 200/ | Apparent fatality |
| | 190 1000 | ay it | | nin az | OHU | PIDY | L Death OVE |
| DESTINATION | <i>+.</i> / | REFERRING P | HYSICIAN | RECEIVING P | HYSICIAN | SIENATI | URE OF RECEIVING FACILITY REP |
| Hosp | DIA / | | | | | | |
| AID BEFORE ARRIVAL BY | INTURY (Possible Factor | | Glasgow CS | I ime | Jime TREA | TMENT PROCEDI | URI 🗀 |
| 0 None 4 Fire Dept | 0 NONE UNDETERMINED | 10 | Eye Opening | 841 | | ONVALESCENT | None |
| 1 Family 5 Police | 1 Into OD (See Back | | 4 Spontaneous 3 Voice | 1 | 01 Ar | Airway Establ | |
| 2 Medical Aid 6 Undetermined 3 Citizen ** Other (Narr) | 2 Assault | \vdash | 2 Pain | | 02 Ar | Respiration by Delivered | Treat Statt |
| | 5 Kare- 4 Homicide | | 1 None | | 04 Ba | R Mark Resur | |
| | 5 Suicide | | Best Verbal Rep 5 Oriented | 1 1 | | eding Con in Treatment | |
| AID ADMINISTERED BEFORE ARRIVAL | 6 fraz Mat Joeid 7 Other Nam | | 4 Contused |]]] | 07 C-C | ollar Applied | 17141 14 |
| 0 None 4 ALS 1 First Aid 5 Undet | | | 3 Inappro Words 2 Incomprehensive | ' | 09 CP | | U 7/17 |
| 2 Extraction + Other Name | APPARENT INJURY | | 1 None | | | ssing Applied : | 1 1 1 1 1 |
| 3 CPR | 02 Abrasion | UM | Hest Motor Resp | | 12 lm | mobilization | |
| APPARENT NATURE CAUSE 20 | 03 Amputation 04 Asphysia | | 6 Obevs Cmmds 5 Purp. Move | } | 13 Irri 14 Lor | gation ig_Bd'Scoop | <u> </u> |
| Medical Injury (Type) | 05 Burn | | 4 Withdraws | | 15 MA | ST ygen Admin | 1417 |
| 01 Cardiac 11 Burn 02 CVA 12 Choking | 06 Bite 07 Contusion | | 3 Flexes 2 Extends | 13 | | LPM = | |
| 03 Diahetes 13 Drowning | 08 Head Injury | | 1 None | | | traints ≟ irt Bd:KED | |
| 05 OB/CYN 15 Exposure - Cold | 09 Fracture/Dislocation 10 Laceration | | GCS Total | | 19 Spi 20 Sur | inting | |
| 06 Psych/Mental 16 Exposure - Hot | 11 Puncture | | PUPILS | TRANSP | OFT 21 Trai | isport Only | |
| | | | - Equal | POSITI | 0 22 Vor | niting Induced | 11 1 1 1 1 |
| 08 Seizure 18 Farm Mach Accident | 12 by call train | | | | | | |
| 19 Firearms | I | | Unequal | 1 Supine | ALS TI | eatmen: | 4 |
| 19 Firearms 20 MVA 21 Motorcycle/Bike/ATN | 12 in reconstraint 13 Undetermined 14 Other (Narr.) | | Unequal R Dilated L | 2 Prone | 24 Bio | eatmen: od Drawn | 1 2 |
| 19 Eirearms 20 MVA | 12 h rz - trair 13 Undetermined 14 Other (Narr.) SAFETY DEVICE USED | | Unequal R Dilated L R Light React L | 2 Prone 3 Semi-Si 4 Sitting | 24 Bio 25 Det 26 Dru | eatmen: od Drawn ibrillated g Admin | 1 - 1 - 1 |
| 19 Friearms 20 MVA 21 Motorcycle/Bike/AT\ 22 Possoning Other 23 Sports Related 31 Follow-up Care (Natr | 12 in the strain 13 Undetermined 14 Other (Narr.) SAFETY DEVICE USED 0 None Undet 3 Heimet 1 Seat Lap Belt 4 Air Bags | | Unequal R Dilated L | 2 Prone 3 Semi-Si 4 Sitting 5 On-Side | 24 Bio 25 Det 26 Dru 27 Into | eatment od Drawn ibrillated g Admin ibation | |
| 19 Frearms 20 MVA 21 Motorcycle/Bike/AT\ 22 Poisoning Other 23 Sports Related | 12 in race train 13 Undetermined 14 Other (Narr.) SAFETY DEVICE USED 0 None Undet 3 Heimet | | Unequal R Dilated L R Light React L R Pinpoint L R Fixed L R R Fixed L | 2 Prone 3 Semi-Si 4 Sitting | 24 Bio 25 Det 26 Dru 27 Intu Narr) 28 IV 29 Mo | eatment od Drawn birillated g Admin bidation Admin nitor EKG | |
| 19 Firearms 20 MVA 21 Notorcycle/Bike/AT\ 22 Poisoning 23 Sports Kelated 31 Followup Care (Nari 32 Underfrmined | 12 in the strain 13 Undetermined 14 Other (Narr.) SAFETY DEVICE USED 0 None Undet 3 Heimet 1 Seat Lap Belt 4 Air Bags | | Unequal R Dilated L R Light React L R Pinpoint L R Fixed L | 2 Prone 3 Semi-Si 4 Sitting 5 On-Side | 24 Bio 25 Det 26 Dru 27 Intu Narr) 28 IV 29 Mo | eatmen: ob Drawn obrillated g Admin obation Admin | |
| 19 Firearms 20 MVA 21 Notorcycle/Bike/AT\ 22 Poisoning 23 Sports Kelated 31 Followup Care (Nari 32 Underfrmined | 12 in the strain 13 Undetermined 14 Other (Narr.) SAFETY DEVICE USED 0 None Undet 3 Heimet 1 Seat Lap Belt 2 Child Restraint | | Unequal R Dilated L R Light React L R Pinpoint L R Fixed L R R Fixed L | 2 Prone 3 Semi-Si 4 Sitting 5 On-Side 6 Other (| 24 Bio 25 Det 26 Dru 27 Inst Narr) 28 IV 29 Mo 30 Oth | eatmen: od Drawn ibriliated g Admin ibation Admin nitor EKC er (Narr) | |

| | Please attach a complete copy of the |
|---|---|
| | patient's chart and copies of any labwork results and any x-rays |
| | obtained. |
| | |
| Individual | |
| PATIENT'S NAME | SS# AGE 2 3. |
| | |
| ADDRESS street | city state zip county |
| PHONE | DATE OF BIRTH |
| | |
| RELATIVE INFORMATION: NAME AND RELATIONSHIP TO PATIENT | (May Only They |
| | () your |
| ADDRESS_ | PHONE |
| INSURANCE INFORMATION (PLEASE INCLUDE NAME | E OF COMPANY AND POLICY #) |
| | |
| | |
| REFERRING MD (FULL NAME) | |
| RECEIVING MD D-, | RECEIVING INSTITUTION |
| PATIENT MEDICAL HISTORY: | |
| ALLERGIES NAME. | |
| MEDICATIONS None | |
| | |
| BRIEF SUMMARY OF CURRENT MEDICAL PROBLEMS | , |
| Kuite Drawna i Se | Ever Head Injury |
| MVA Head on - E | Seat Belt |
| | |
| BRIEF SUMMARY OF TREATMENT GIVEN TO PATIE | NT PRIOR TO TRANSFER: |
| 2 165 T/ lui | LR + NS |
| FC #16 | |
| 76-11/6 | |
| El | |
| | |
| | |
| | |
| SIGNIFICANT PAST MEDICAL HISTORY: | ·- |
| | it to althoughten) |
| - in sundian | y reaction from the |
| Den Standi | Darents. |
| | |
| Keep yellow copy. Send white and pi | nk with the patient. |

PHYSICIAN'S CERTIFICATE OF TRANSFER

I hereby certify that, based on the information available to me at the time of transfer, the medical benefits reasonably expected from the provision of appropriate medical care at another medical facility outweigh the increased risk to the individual, and in the case of labor to the unborn child from effecting the transfer.

This certification is based on the following:

| Benefits: | medi Avail | | atient or, in the ev | rent of pregnancy, ι | ment required to meet the unborn child. | specia |
|--------------|-----------------------|--|--|--|--|----------------------|
| Risks: | Developing during tra | nsport, | Cardiac arri | Hemorrhage nythmias or arrest difficulty or arrest of presenting sym | • | - |
| | ☐ Deliv | ery of infant during | transport | | | |
| | inclement | weather, rough | | | ks of traffic delays, acciden ation of equipment and po | |
| Physician's | s Name | · | | Date | Time | |
| Physician's | s Signatur | 9 | | | | |
| IF NO PHY | YSICIAN IS | S PRESENT: | | | | |
| Nurse's Na | ame | | | Date | Time | |
| | | | | | | |
| | | | | | Time | |
| | | PHYSICIAN | MUST COUNTE | RSIGN WITHIN 24 | HOURS | |
| | | cc | NSENT/REFUSA | AL TO TRANSFER | | |
| the risks of | of transfe | the opinion of the . I have been in e considered these | formed of the ri | sks and benefits | nat the benefits of transfer of upon which this transfer | outweigh is being |
| to that's | facility. | and/ | or his associates to another facility | at | ermission for treatment Hospital and attending physician(s), nur suffered as a result of my re | in transit |
| | sferred. | , . Isaan Systems | | any consequences | sancied as a result of my m | eiusai (O |
| Patient or | Responsib | le Person (relation | nship) | Date | Tiı | me |
| Witness | | | | | | |

Trauma Center Medical Records

{Facility to which Occupant was transported by Helicopter}

| | San San San San San San San San San San | A STATE OF THE PARTY OF THE PAR | | | | | | · · · | | | _ |
|---|---|--|--------------|---------------|---|---------------|---------|----------------|----------|---|--|
| Date 94 T-# | | ₩ei | | | kg) 96 | Sex: | M F A | ge: <u>2</u> 3 | _ DOB | | |
| Patient Name | | | Ad | dress | Street | | SP (| city/State | K | Zip | |
| Relative: Name | | | 1 | Relation: | | 18-04-Oc | | hone # | | | |
| Address: | 050 | bors | | | | V | | Contact | ed: Yes |) No | |
| Social Security # | | | | orance T | | | | Dox V | flum | traur | <u>~</u> |
| Referring Agency Receiving Agency | | | 7608 | Di Til | _ M.D _ M.D | | | Unit | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| COBRA Papers Yes No | Reason | for Trans | fer: (a | n Not | | Dolo c | £ _ | 4 | | | |
| Advance Directives: Ye | s (No)Per | sonal Be | longings | :_ <i>NOM</i> | ٤ | | | | | | |
| OBISIN WEATHER CHECK | | | | | | | | | | | |
| OSKA DISPATCH | Je 195 | LICOPTE | R/ALTIT | UDE | 1 11 | | | additio | • • • | _ | |
| GOOD LIFT-OFF | 040 | | <u> 7000</u> | | - | <u> </u> | - 140 | 000,4,0 | MAL IN | 10 | -1 |
| 1980 LANDING OF | PS. FIX | KED WIN | G/ALIII | INF | | | | | | | |
| MIDIO H LEAVE HOSPITALISCE | 70 G | ROUND A | MBULAN | ICE | ┪╟ | - | | | | | |
| 16 M K LIFT-OFF | / DEST | | | | - ∟ | | | | | | _ |
| LAND AT RECEIVING | LC | ADED M | ILES | | | | | | | | |
| IV SIZE/SITE FLUID | IL RAT | E PL | JMP | | ــــا لــــ | PREFLI | GHT | 11 | NFLIGHT | TOT | TAL |
| ? \$ 16 (84) pera LR | ΙKυ | | | TAKE: | IV | | 00 | 250 | 00 | 1:400 | 0 |
| ? # 16 13) pand LR | K | 00 | | | BLO | OD | | | | \dashv | |
| MEDICATION DOSE ROUTE TIME OUTPUT: URINE 100 100 0: | | | | | | | | | | | |
| | | | | | BLO | | | | | 7,200 | ' |
| Soonware | स्टिज । | | | | | SIS | | | | コ | |
| 140 | | | | | | | | | | | |
| MONITORING: | | | D-4:L D | | Droops | 106 <u>~</u> | Oscillo | mate. | — Noni | | |
| Zoll Lifepak XSecured to litter Se | Pacer pa | AC AC | Restrair | ads nts | Propaq | Ear Prot | | lilate | Vent | <u>"==</u> | _ |
| TIME | | | 0956 | 1000 | 1008 | 1021 | 1038 | 1039 | 1101 | 1105 | 1118 |
| | 210/130 | | 216/138 | | | | | | <u> </u> | | 113/- |
| BLOOD PRESSURE | | | 135 | | 69 | Orace | 100 | 10090 | COR | ,,,,, | 100 |
| PULSE | 186 | 140 | 155 | 1178 | 9 | 30 | 100 | 100 | 100 | 100 | 100 |
| CAP. REFILL | 350c | 950c | C | (+ | 2 | 20 | 3 | | | | |
| RHYTHM | ST | ST | ST | ST | SR | SB | Pac | 2 -7 | | | |
| RESP. RATE | padel300 | J-73 | | <u>20-</u> | 35 | m:n | | | | - | |
| OXYGEN %/MODE | 100% /AR | 1000/ETT | / | 7 | | | | - | 0.00 | /> | |
| 02 SATURATION % | 98% | 99% | | | 96% | | | | 99% | <u> </u> | |
| ETT PLACEMENT | NA | ok | | 7 | 7 | | | , | 7 | | Ī |
| ETCO2 | NA | uno | ble t | o opto | riu oc | twate | Boog: | <u> </u> | | ļ | |
| PUPILS: SIZE R/L | 212 | <u>a</u> 1a | 1 | 1 | 1 | 1 | 1 | / | / | 1 | / |
| GLASGOW:E/M/V | 1/2/1 | 1/1/1 | 11 | 1 1 | 1 1 | 1/1/1 | 1 1 | 1 1 | 1/1/ | 1 1 | 1 1 |
| GCS TOTAL | 14 | | | | | 3 | | | 3 | <u> </u> | |
| TRAUMA SCORE | 6 | | | | | | | | ļ | ļ | <u> </u> |
| | | | | 1 | | | 1 | 1 | 1 | 1 | 1 |

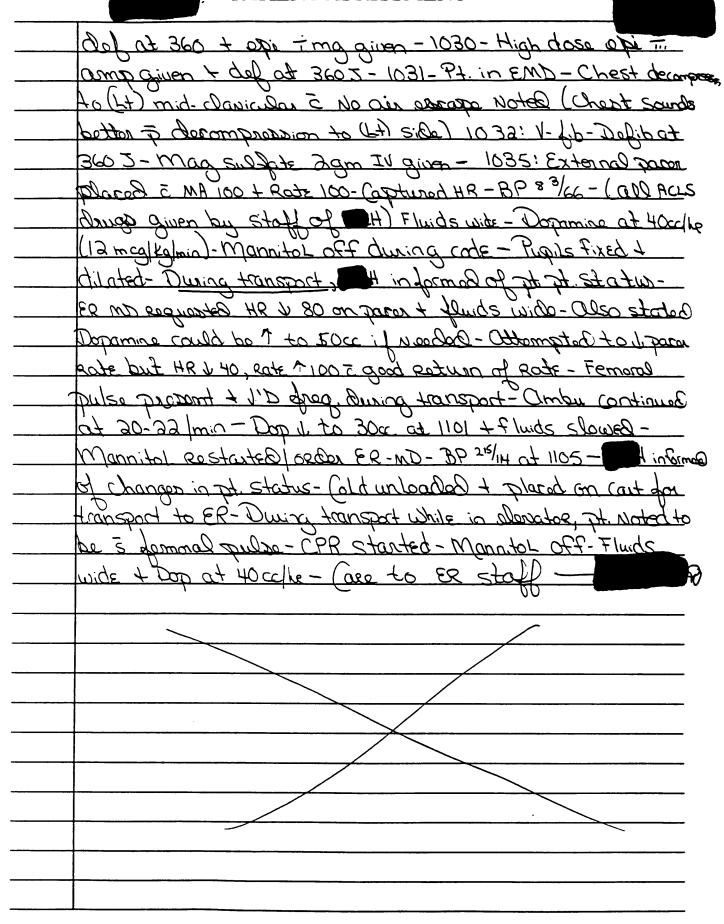
| HISTORY: Chief Complaint Mult. + Course 5 | mul at com | 503N | |
|--|---|---------------------------------------|-------------------------------|
| History present illness/injury 24. | Sin Jand- on | MYA-Washin | a sock-bolk + air-bag |
| infloted / px EUS on scene- | | | MS states stooming |
| | | | To Die 19411 O. J. De |
| COV & BORRIPO COLONIO TO | of a Ottomorion | mileditai | John 18 000:1168 - |
| ON 158 5 C-collar + head-bl | 2 Comprise | - TU'S IN TO | con some states |
| ON LSB & C-COMON + FROM- BU | ocke to broom. | • | ACH - CIVIS STOWER |
| | LABS: BLOO | NOT Glu | |
| PMHX: | WBC Hgb | Not whole | X-ray chest |
| Allergies unknown | Hct | Glu |) |
| · · · · · · · · · · · · · · · · · · · | <u>Na</u> | CI | |
| Home Meds WKNOWN | — К | HCO3 Bun-cr | |
| Last PO intake woknown | | | EKG NON S |
| Immun./Tetanus unknown | | | EKG NON E |
| Hosp./Surgeries WKNOWN | | | |
| PHYSICAL EXAM: | | · · · · · · · · · · · · · · · · · · · | |
| tead Bruising at sodom areas of | ' Inca-Bleed on a | Jum for an | ldomain atout on 2 wholl born |
| Eyes No dra age - Tuals amo | 2/ 100-01-00 cl 12 | who is lead to | |
| | A MONTAGORINE | tal bother was an | BUT (CHO/TEU F + D BUBISON OF |
| ars No drange | | | |
| Vose No Arainago | - \ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 11 | 4 = 10 |
| Mouth/Neck C-collar in place - Clampa | | choa midline - | |
| | | stricon - : Flair & | pagment Palpated on (L+) |
| Side?-Bruising to (Lt) Side of | chest. | | |
| tean S, Sa Propent - Monitor = | ST TO ectop: | C- Parp July | tropord to |
| <u> </u> | · · · · · · · · · · · · · · · · · · · | | \ |
| bdomen abd. soft & Nea BS | | | |
| extremities Outward Sostunia a | | | |
| S.U. Folay & amber unino 2 P | alnic ROCE NO | active | |
| Veuro Postsking - Clenching toot | n-Nat Responsi | il to stimuli | |
| | • | | |
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ADMISSION RECORD

MEDICAL RECORDS COP

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PATIENT ASSESSMENT



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| TREATMENT PRIORIT | | | ☐ AMBULATORY | □ SELF | HELICOPTER |
| MIMIMEDIATE | • | | WHEELCHAIR | POLICE | □ OTHER |
| URGENT | | | CART | ☐ RELATIVE / FRIEND | |
| □ NON-URGENT | LAST T.T. | | ☐ CARRIED | ☐ AMBULANCE | |
| RECHECK | CURRENT MEDICATIO | ONS: | □ NONE | | |
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| PAST MEDICAL HISTORY: | | | | | |
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| DATE | TIME | CR | ND | COLLABORATION/ACTION & RESPONSE RECORD |
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| | | | | when CFR stagged. |
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| | 1132 | | | CPR Storp CPR -> Asystale continue |
| | 1134 | | | CAR. Punture (Llawer chair Expiral |
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| | | | | #16 Da Com Duma CPR continues |
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| | | | | introg. CPR continues. 3 Precordial |
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| | | | | CPR - RECENCIO |
| | 1146 | | D | Pacer off. Napulse-Stepcose |
| | 05 | 120 | 4 | FRONOUN ECTO Ry M. |
| | Addressografi | | | and Dr. |
| | | | | C - Chaplain C - Collaborative Referral PH - Physician PI - Dietary PC - Poison Control P - Police (City/County) PI - Discharge Instructions P - Police (City/County) PI - Discharge Instructions P - Respiratory Care ED - Health Department S - Security ICN - Infection Control Nurse SS - Social Services ED - Nursing Diagnosis SP - Supervisor SWH - Mental Health CR - Collaborative Referral to include date, name of person contacted, subject of collaboration, outcome of collaboration, RN signature. |

| | | | | COLLABORATION/ACTION & RESPONSE RECORD |
|----------|------|----------|---------|--|
| DATE | TIME | CR | ND | |
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| | | | | har Rad Mr. (pt. grandpa) |
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ADDRESSOGRAPE

P.3

KZY:

C = Chaplain
CR = Collaborative Referral

- Dietary D

DAR - Data, Action, Response

DI - Discharge Instructions HD - Health Department

ND = Nursing Diagnosis

ICN - Infection Control Nurse

NU - Nursing Unit

PH - Physician

PC = Poison Control P = Police (City/County)
RC = Respiratory Gare

S = Security
SS = Social Services

SP - Supervisor SWE - Mental Bealth

CR - Collaborative Referral to include date, name of person contacted, subject of collaboration, outcome of collaboration, RN signature.

| DATE | TIME | CR | ND | COLLABORATION/ACTION & RESPONSE RECORD |
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ADDRESSOGRAPE

XZY:

C = Chaplein
CR = Collaborative Referral
D = Dietary

DAR = Data, Action, Response

DI = Discharge Instructions
ED = Health Department ICN = Infection Control Nurse ND - Nursing Diagnosis

NU - Nursing Unit PH - Physician PC - Poison Control

P = Police (City/County)
RC = Respiratory Care
S = Security
SS = Social Services
SP = Supervisor

SWE - Mental Bealth

CR - Collaborative Referral to include date, name of person contacted, subject of collaboration, outcome of collaboration, RM signature.

RECORD OF DEATH

| DEMOGRAPHIC DATA | | | | | |
|--|--|--|--|--|--|
| Mr. Name: Mrs. Miss (last name, first name, middle'initial) Baby | Age: 234EARS Date of Birth: | | | | |
| | Social Security Number: UNKNOWN (Obtain from face sheet) Time of Death: 1/46 Date: 1/94 Notified by: Date: 54 Time: 1330 | | | | |
| Address/Phone Number: | Ku - Relationship to Deceased: GRANDPA | | | | |
| Nursing Practice Office notified: (person notified) | Notified by: Date 4Time: 1/20=5 | | | | |
| AUTOPSY | AUTOPSY (continued) | | | | |
| Nurse must ask physician if autopsy indicated. Reason for Autopsy as Indicated by Physician to (Check criteria applicable): (Name, Title of RN Calling) To help explain unknown/unanticipated medical and/or | Does physician request NPO to notify him of date/time of autopsy? Yes No NPO notified: Yes No Rerson notified) Notified by: **Part 1 205 | | | | |
| surgical complications. Obstetrical complications. Clinical cause uncertain (any age). Family concerns. Patient participation in clinical trial approved by Institutional Review Board. Sudden unexpected and/or unexplained death, apparently natural, without diagnosis prior to death and not subject to Coroner's medical jurisdiction. Probable disclosure of a known/suspected illness which might have significance to survivors or recipients of transplant organs. Exceptional academic interest which may contribute to knowledge base. Psych service. | Remarks: Body sent to: Body released back to hospital? Body released to Coroner? Yes No No | | | | |
| Autopsy: Yes No Requested by: Physician Family Complete Head Only Trunk Only physician wants autopsy, check which options physician prefers for obtaining consent from family (RN must ask the physician): Physician will come to unit and get consent. Physician will obtain consent by telephone. Physician requests ER physician to obtain consent. If so: | Released by whom: (Coroner/Coroner's Representative (Date) (Time) Signature) RELEASE OF BODY/BELONGINGS FROM UNIT List belongings (such as glasses, dentures, jewelry, purse/ wallet, clothing, etc.) released to: | | | | |
| (Name of ER MD notified) by (Name/Title) at (Time) (Date) Authorization signed by next of kin? Yes No Pathologist notified: | Morgue: NPO: Other: NPO: NPO: NPO: NPO: NPO: NPO: NPO: NPO | | | | |
| (Person notified) | Body taken to Morgue by: | | | | |
| (Notified by) (Date/Time) Autopsy scheduled for: DateTime | (Date) (Name) 1550 (Time) | | | | |

| DATE | TIME | CR | ND | COLLABORATION/ACTION & RESPONSE RECORD |
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ADDRESSOGRAPE

KZY:

- Chaplain CR - Collaborative Referral D - Dietary

DAR = Data, Action, Response DI - Discharge Instructions HD - Health Department ICM - Infection Control Nurse

ND - Nursing Diagnosis

NU - Nursing Unit PH - Physician

PC - Poison Control

P = Police (City/County) RC - Respiratory Care

S - Security

SS = Social Services SP = Supervisor SWEE - Mental Bealth

CR - Collaborative Referral to include date, name of person contacted, subject of collaboration, outcome of collaboration, RN signature.

Hospital Thu 1994 01:05 pm. Dutpatient Summary Report

Pat Name:

Page: 1

unit #/Acct #: Loc:

phys-Service: - EMERGENCY

194 1207 Spec: 3lood `ut:🚛 94 1220 Techs: Coll Time: 94 1200 Order Phys: *Corrected* *STAT*STAT*STAT* kasult Name Result Ref Range Anylase(U/L): <30 L 37-117 94 1207 Spec: 5100m ! METABOLIC PROFILE 7 | Techs: Coll Time **C**94 1200 Order Physic *STAT*STAT*STAT* insult Name Result Ref Range Result Name Result Ref Range Sodium(mmol/L): 136 135-145 Glucose,R(mg/dl): 235 >50 Potassiu(mmol/L): 5.9 H 3.5-5.3 Urea Nitr(mg/dl): 14 7-21 Inforide(mmol/L): 96 L 95-106 Creatinin(mg/dl): 1.5 a 0.5-1.5 107(mmo1/L): 17 L 23-50 **94 1207** Spec: Bloom lut: 1 Dans SCREEN, SERUM I Techs: **794 1230** indor Physi *STAT*STAT*STAT* sult dame Result Ref Range Acetaminophen(ug/ml): None Detected Therapeutic Range= 10-3) Potentially Toxic= >120 at 4 mrs post-med Potentially Toxic= >50 at 12 hrs post-med -rhiturate(ng/nl): None Detected None Detected/Cutoff= 3000 intodiazebines(ng/ml): None Detected None Detected/Cutoff= 300 a=licylate(m;/dl): <0.5 Antipyresis= <100 Anti-inflammatory= 150-300 Potentially Toxic= >200 Tricyclic Antidebres(ng/ml): None Detected None Detected/Cutoff= 300 uh si h-of-Custody: Specimen not submitted under custody.

Hospital Thu 1994 01:06 pm Outpatient Summary Report

Pat Name:
Unit r/Acct #:
Loc:
Phys-Service:

Page: 2

- EMERGENCY

Result Name

Result

Ref Range

Alcohol, Ethyl(mg/dl):

None Detected

None Detected

End of Report - 94 1305

Page: 1

Hospital 1' 1 01:09 am outpatient Sunmary Report

Pat Name:

Unit #/Acct #:

Loc:

- EMERGENCY Phys-Service: 94 1257 Spec: Urine Jut: 1997 74 1341 | DRUG SCREEN (ER), URINE | Techs: 94 1257 --Order Phys: *STAT*STAT*STAT* Result Name Result Ref Range Amphetamines(ng/ml): None Detected None Detected/Cutoff=1000 Barbiturates(ng/ml): None Detected None Detected/Cutoff= 200 3enzodiazepines(ng/ml): None Detected None Detected/Cutoff= 300 Cannabinoid Metaboli(ng/ml): None Detected None Detected/Cutoff= 50 Cocaine Metabolite(ng/ml): None Detected None Detected/Cutoff= 300 Opiates(ng/ml): None Detected None Detected/Cutoff= 300 Phenovolidine(na/ml): None Detected None Detected/Cutoff= 25 Spec Gravity: 1.020 1.005-1.030 In: 94 1207 Spec: 5lood 24 1343 Jut: I CBC I Techs: Sall Time 12/94 1200 Order Phys: *STAT*STAT*STAT* Result Name Result Ref Range 460(1000/mm3): 5.2 4.8-10.3 R3C(mill/cumm): 3.44 L 4.5-6.2 Hgo(gm/dl): 10.0 L 14.0-18.0 ਖਟੰt(%): 29.5 L 40.0-54.0 4CV(f1): 35.6 80.0-94.0 MCHC(항): 29.1 27.0-31.0 34.0 32.0-36.0 304(%): 12.0 Platelets(1000/mm3): 77 L 150-400 40V(fl): 6.5 Neut(?): 45.4 L 52-32 Lymphs(%): 50.3 Eos(智): 1.5 Sasos(元): 0.0 Homos(光): 1.5 RAC Morph: Slight Anisocytosis Normal Poikilocytosis Acanthocytes

Hospital i 1 1 101:09 am outpatient Summary Report

Pat Name: Unit #/Acct #: Page: 2

Loc:

Phys-Service: EMERGENCY

| In: 194 1257 | | Spec: Urine, Voided |
|----------------------|-----------------------|---------------------|
| Out: 94 3-332 | URINALYSIS WITH MICRO | Techs: |
| Coll Time: 494 1257 | | |
| Order Phys: | | |
| _ | *STAT*STAT*STAT* | |
| Result Name | Result | Ref Range |
| Color: | Yellow | |
| Clarity: | Clear | |
| Spec Gravity: | 1.020 | 1.005-1.030 |
| LES: | Negative | Negative |
| Vitrite: | Negative | Negative |
| oH(oH Units): | 5.5 | 3 |
| Protein(mg/dl): | Trace | Negative |
| Glucose: | 1+ | Negative |
| Ketone: | Negative | Negative |
| Urobilinogen(gm/dl): | Normal | <1 mg/d1 |
| Bilirubin: | Negative | Negative |
| 3100d: | Negative | negative |
| WPCs(/HPF): | 0-2 | • - |
| RBCs(/HPF): | C-2 | |
| Epiths(/HPF): | 0-2 | |
| Bacteria(/HPF): | 9-2 | Negative |

End of Report - 94 0110

HOSPITAL , Indiana

PATIENT NAME:

DATE OF EMERGENCY ROOM VISIT:

/94

EMERGENCY ROOM PHYSICIAN:

M.D.

PERSONAL PHYSICIAN:

NONE ·

HISTORY OF PRESENT ILLNESS: This 23-year-old white male was transferred from Hospital via Life-Flight. The patient was involved in a motor vehicle accident. He was noted to have a head injury and possible chest injury at the scene. The patient was unconscious and barely breathing. He was intubated and paralyzed. His pupil was dilated on the left at the scene and was dilated and mid-point in the hospital. Apparently they were fixed. There was no sign of abdominal or limb injury. The patient was loaded in the helicopter went he went into electromechanical dissociation and a temporary bout of atrial fibrillation. The patient was resuscitated and transferred.

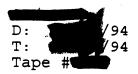
EMERGENCY ROOM COURSE: As he was arriving the patient again went into electromechanical dissociation and then to fine atrial fibrillation and eventually asystole. He was counter-shocked. Cardiopulmonary resuscitation was maintained. Dr. saw him in the emergency room. The patient was given a fluid challenge. Pericardiocentesis was uneventful as was attempt aspiration of possible tension pneumothorax. There were no signs of significant abdominal injury. The patient persisted in asystole.

ASSESSMENT:

1. Motor vehicle accident with head and possible chest trauma presenting as a trauma code.

PLAN: The patient was pronounced after resuscitation methods were exhausted.

M.D.



PATIENT:

DATE OF ER VISIT: 94

EMERGENCY ROOM PHYSICIAN:

PERSONAL PHYSICIAN: M.D.

HISTORY: Mr. Which is a young white male who was involved in a motor vehicle accident and transferred here via LifeFlight. He had cardiac arrest prior to getting out of the sending hospital Emergency Room and had to return. He was intubated, given IV Pavulon, resuscitated and transferred here. He has remained hypotensive. He arrest during transfer from the roof down to our facility. He is in electromechanical dissociation, atrial fibrillation followed by flat line. He would not respond to external pacing. A pericardial centesis returned no fluid. A needle aspiration of the left chest cavity where the previous Heimlich valve had been placed returned no fluid. A left femoral venous catheter was inserted. Good venous blood was obtained, samples obtained, secured in place. A complete medical code was run. Several liters of fluid, IV saline were given. He remained in flat line EKG. We could not generate any cardiac rhythm. He was pronounced dead at 11:46 a.m. on

M.D.

D&T 94

Autopsy

AUTOPSY REPORT

COUNTY



The autopsy examination is performed for the County Coroner's Office at the request of Chief Deputy Coroner's. The examination is performed at the County Coroner's Office Facility in Indiana and commences at approximately p.m. of 1994.

CLINICAL HISTORY

The clinical history is that the patient is a 23 year old Caucasian male, date of with stated residence address of birth Kentucky. He is listed as a student. The patient was the apparent driver involved in a head-on motor vehicle accident within the Kentucky County. The location of this accident is about .10 mile west of mile marker number to Highway Kentucky. The patient was initially brought to Hospital and was subsequently transferred by LifeFlight helicopter to Hospital in Indiana. The patient apparently arrived in the emergency room at 11:19 1994. At the time of arrival in the emergency room, the patient was noted to have apparent closed head injuries. Cardiopulmonary resuscitative measures were in progress. The patient arrived intubated. subsequent resuscitative measures were unfortunately unsuccessful and he was pronounced dead at 11:46 a.m. of 1994, by Dr. emergency room at Hospital. During resuscitation, the patient developed ventricular fibrillation and was administered defibrillation, but was ultimately unsuccessful. He is reported to be a restrained driver involved in this motor vehicle accident. The patient's next of kin is listed as his mother, Illinois. The mother, requested of this examiner to be present and witness her son's autopsy examination. This examiner declined her request. Laboratory data recorded from the hospital includes hematocrit of 29.5%, hemoglobin 10.0, white cell count 5200, platelet count 77,000, sodium 136, potassium 4.9, chloride 96, CO₂ 17, glucose 235, BUN 14, creatinine 1.8 and amylase of 30. In addition, a drug screen was performed at the hospital and revealed urinary drug screen which is negative for amphetamines, barbiturates, benzodiazepines, canadinoids, cocaine, opiates, phencyclidine, acetaminophen, salicylates, tricyclic antidepressants and alcohol, all being negative findings.



EXTERNAL EXAMINATION

The external examination reveals the remains of a young Caucasian male consistent with his stated age of 23 years. He is about 6'2" tall and weighs about 178 lbs. The scalp hair is short to moderate length, brown color. This person is of a slim, muscular build. IV site is present in place, taped, in the left forearm region. A metal splint is present on the right forearm region. Focal moderate petechial hemorrhages are present on the mucosal surface of the lower eyelids bilaterally. Nose appears intact. The eyes are brown. Pupils are 0.5 cm in diameter, bilaterally. Ears show no evidence of bloody drainage at this time. Mouth appears intact. There is superficial abrasion of the lower lip, midline region. Face appears relatively clean There is a plastic catheter tube present in the left anterior chest, left subclavian region, at this time. Hospital identification bracelets are present on right and left wrist regions. Chest and abdomen appears intact. The abdomen is flattened. External genitals are those of a young Caucasian male. Rigor mortis is present in the extremities and livor mortis is present posteriorly in the lumbosacral regions. The body is cool due to post mortem refrigeration. The lower extremities appear intact. There is an IV line present in place in the left groin region. The teeth appear to be in good repair. No evidence of loose or fragmented teeth seen. Maxilla and mandible appear stable. Manipulation of the neck reveals no definite cervical spine fractures or dislocations. Examination of the scalp reveals there to be vertically oriented laceration on the left occipital scalp region, posterior to the left ear. This laceration measures about 4.8 cm long and extends down to the underlying occipital skull region. There is an apparent open skull fracture which allows insertion of a digit between the fracture lines into the underlying cortical tissues. No other lacerations are seen on the head or scalp regions. Palpation of the pelvis reveals no evidence of pelvic fracture. Clavicles appear intact. No subcutaneous emphysema of chest or abdominal regions is seen. No evidence of old or recent surgical scars seen. Negative for tattoos. There is some dried blood present within the left external ear canal. The back, spine and anus reveals only livor mortis to be present. Further inspection of the scalp reveals there to be present a vertical midline occipital laceration which extends down to the underlying midline occipital bone. This measures about 3.5 cm in length. The back, spine and anus appear intact and unremarkable. External genitalia are those of a young Caucasian male.

HEAD EXAMINATION

The usual semilunar-shaped intraauricular scalp incision is made and skin flaps reflected anteriorly and posteriorly. There is moderate amounts of subcutaneous scalp interstitial hemorrhage in the left temporal occipital scalp region and mild amounts of interstitial hemorrhage in the posterior occipital scalp regions. Inspection of the cranial surfaces reveals there to be a linear line of bone indentation in a vertical pattern present in the left parietal occipital skull region. This is more or less vertically oriented, has a width of about 0.8 cm and shows indentation of bone along a sharp



bony ridge. This measures approximately 2.5-3 cm long on the outer table of the skull. No definite skull fractures related to the posterior scalp laceration is seen. The bony cranial plate is removed by means of a Stryker saw revealing underlying pink, smooth and glistening meningeal surfaces. There is present mild to moderate subarachnoid hemorrhage on the lateral aspects of the left and right cerebral hemispheres. No evidence of cortical brain scarring is seen. There is present a region of cortical disruption in the left parietal temporal lobe region, which measures about 3.5 X 2.5 cm and which appears to be underlying a region of indented linear skull fracture in the left parietal occipital skull region. The inner table of the skull in this region shows compound fragmentation and indentation a distance of approximately 1-1.3 cm into the underlying cranial vault. The brain is removed and noted to weigh 1560 grams. Inspection of the surface of the brain reveals focal regions of cortical contusion which are present on the inferior aspects of the frontal, temporal and parietal lobe regions. The brain is subsequently serially sectioned in the coronal plane in the fresh state revealing there to be present regions of superficial and deep cortical contusion within the inferior portions of the frontal, temporal and parietal lobe regions. There is also noted to be present a small to moderate amount of liquid blood free within the right and left lateral horns of the third ventricle. The dura is stripped from the base of the skull revealing the described left parietal occipital indented skull fracture. There is also present an occipital skull fracture present in the midline occipital skull region in the posterior cranial fossa. Sections of the pons and cerebellum reveals a symmetrical, intact and unremarkable appearance. Inspection of the inferior surface of the brain shows no evidence of uncal, cerebellar or cingulate gyrus grooving. The vessels of the Circle of Willis appear intact. No evidence of berry aneurysm is seen.

PRIMARY INCISION

The usual Y-shaped anterior primary incision is made. Subcutaneous adipose tissue is 1.4 cm thick over the chest and 1.9 cm thick over the abdomen. The chest musculature is well developed for age. Skin flaps are reflected superiorly and laterally revealing unremarkable ribcage and sternum. Opening of the peritoneal cavity reveals pink, smooth and glistening peritoneal surfaces. There is a total of approximately 250 cc of liquid and clotted blood free within the peritoneal cavity. Close inspection of the abdominal viscera reveals there to be a region of mild interstitial hemorrhage and a small region of laceration which is present in the hilum of the spleen. This appears to be the source of free blood within the peritoneal cavity. No evidence of identifiable liver lacerations are seen. The urinary bladder is beneath the symphysis pubis and is essentially devoid of urine at this time. The small and large bowel and its mesentery is inspected revealing no evidence of traumatic injuries. The usual wedge-shaped anterior rib plate is removed revealing underlying pink, smooth and glistening pleural surfaces. The lungs appear moderately well aerated bilaterally. There is noted to be present a moderate to large amount of liquid and clotted blood within the left pleural



space. The volume is estimated at 1000 cc total volume. Inspection is then made of the left pleural space revealing there to be present a mild to moderate degree of posterior mediastinal interstitial hemorrhage which is noted along the left posterior pleural reflection. There is no evidence of identifiable disruption of the pleura in this region. Further inspection of the left pleural space reveals there to be a rounded needle-like fenestration of the parietal pleura of the left upper anterior chest region. This fenestration is in the interspace betw sen the left anterior 1st and 2nd ribs and appears to be approximately underlying a region of plastic catheter placement at the skin surface level of the left upper chest. There is a moderate degree of interstitial hemorrhage behind the parietal pleura in this region. This interstitial hemorrhage is present over an approximate 5 cm wide area. The only region of identifiable laceration or fenestration in the left pleural space is in the region of this fenestration of the upper left anterior chest region. Palpation of the lungs reveals there to be present a moderate diffuse boggy texture to palpation. The pericardial sac is opened revealing a small amount of watery fluid. The heart does not appear to be enlarged.

ORGANS OF THE NECK

The usual anterior skin flap is reflected superiorly revealing underlying subcutaneous tissue and anterior neck musculature. No evidence of interstitial hemorrhage or disruption is seen. The hyoid bone is intact. The thyroid cartilage, cornu of thyroid cartilage, trachea and larynx are normal in their position and relationships. The thyroid gland is in the usual anatomic location, weighs about 30 grams and has a homogeneous pink-red, smooth and glistening appearance on sectioning. The epiglottis, true and false vocal cords, laryngeal and tracheal mucosa is pink, smooth and glistening. No evidence of foreign body obstruction of airways is seen. There is present a small amount of liquid blood present within the lower tracheal regions. There are focal mild numbers of petechial hemorrhages of the mucosal surface within the larynx.

HEART

The heart weighs approximately 320 grams. Inspection of the epicardial surface of the heart reveals there to be present mild numbers of petechial hemorrhages near the apex of the heart on the epicardial surface. The heart does not appear to be enlarged. The coronary ostia are normal in their position and relationships. Serial sectioning of left anterior descending, left circumflex and right coronary arteries reveals them to be wide open and patent throughout. The endocardial surface of the heart is pink-red, smooth and glistening. Trabeculae carneae, papillary muscles and chordae tendineae appear to be intact and unremarkable. Sectioning of the myocardium reveals it to be firm and pink-red throughout. Right ventricular thickness is 0.2 cm and left ventricular thickness is 1.4 cm. The aortic, mitral, tricuspid and pulmonic valves are thin, pliable and competent. The arch, thoracic and abdominal aorta and the major branches all appear intact and



unremarkable. No evidence of transection of aorta is seen. The superior and inferior vena cava appear intact.

LUNGS

The right lung weighs 1210 grams. The left lung weighs 890 grams. The pleural surfaces of the lungs are pink, smooth and glistening. Minimal anthracotic pigment deposition is present. The pulmonary artery and veins show no evidence of thromboembolic phenomenon. The bronchial radicles show a pink bronchial mucosal appearance. There is present a small amount of frothy edema fluid within the smaller bronchial radicles bilaterally. Sectioning of lung tissue reveals a pattern of a more or less diffuse pulmonary edema and congestion of all lobes. No evidence of acute or chronic inflammatory changes are seen. No purulent changes, cavitation, consolidation, abscess formation, cysts, tumors or masses within the lung tissue is seen.

MEDIASTINUM AND RETROPERITONEUM

There is present a mild to moderate degree of interstitial hemorrhage present in the posterior mediastinal interstitial regions. No evidence of disruption of major vessels seen. The retroperitoneum contains usual amounts of bright yellow adipose tissue. The diaphragm appears normally placed and intact. The omentum is present in the usual apron-like anterior arrangement.

LIVER

The liver weighs approximately 1600 grams. The capsule appears intact. The usual right and left lobes are present. The usual reddish-brown, smooth and glistening appearance is noted. The gallbladder is present on the inferior edge of the right lobe of the liver and contains a moderate amount of golden green bile without calculus formation. Sectioning of the liver reveals a pattern of a diffuse mild acute congestion. No focal hepatic lesions are seen.

SPLEEN

The spleen weighs 270 grams, has the usual bluish, wrinkled capsular surface and underlying dark red-brown hemorrhagic parenchymal tissues. There is a recent laceration of the hilum of the spleen. No focal splenic lesions are seen.

PANCREAS

The pancreas is in the usual retroperitoneal, periduodenal location and has the usual tan multilobular appearance. No cysts, tumors, masses or fat necrosis is seen in pancreatic regions.



KIDNEYS

The right kidney weighs 140 grams. The left kidney weighs 150 grams. The capsules strip easily from underlying pink-red, smooth and glistening cortical surfaces. The cortex averages 0.7 cm in thickness and is well demarcated from underlying medullary regions. The calices, pelvises and collecting system are lined by an ivory-colored mucosa which is free of stones, cysts, tumors, masses and other abnormalities. The ureters have a pink mucosa, intact muscular wall and follow a normal course.

URINARY BLADDER

The urinary bladder is present beneath the symphysis pubis and is essentially devoid of urine. The mucosa is light gray. The muscular wall is intact.

ADRENAL GLANDS

Adrenal glands have the usual size and shape with bright yellow cortex and gray medulla of the usual thickness. No focal adrenal lesions are seen.

GASTROINTESTINAL TRACT

The esophagus is straight and follows a normal course through a diaphragmatic hiatus of the usual width. The mucosa is pink. The muscular wall is intact. Opening of the stomach reveals it to contain a small amount of gray watery fluid. The usual rugal pattern is maintained. No evidence of gastric, pyloric or duodenal ulceration is seen. The duodenum, jejunum and ilium have a pink mucosa and intact muscular wall and contain moderate amounts of green mucoid material within the lumen. Cecum is present in the right lower quadrant with an unremarkable appearing cecal vermiform appendix present. The cecum, ascending, transverse and descending colons have pink mucosa, intact muscular wall and contain small to moderate amounts of poorly formed brown fecal material within the lumen. The sigmoid colon, rectum and anus appear intact and unremarkable in appearance.

BONES. JOINTS AND MUSCLES

Examination of the inner aspect of the axial skeleton including the cervical, thoracic, lumbar and sacral spinous regions reveals no evidence of gross fracture, deformity, dislocations, hemorrhages or other abnormalities. Examination of the inner aspect of the ribcage and sternum reveals no evidence of bony fractures or dislocations. Clavicles appear intact and unremarkable. The bones of the pelvis show no evidence of fracture, deformity, dislocations, hemorrhages or other abnormalities. The long bones of the extremities are freely movable at the joints without evidence of gross fracture, deformity, dislocations, hemorrhages or other abnormalities. The musculature is well developed for age.



RETAINED EVIDENCE: Multiple tissue biopsy specimens including heart, coronary artery, lung, liver, spleen, pancreas, kidney, adrenal gland, gastric mucosa, thyroid gland, trachea and brain biopsy tissue are placed in formalin for fixation. The formalin fixed tissue biopsy specimens will be maintained for a minimum period of five years after date of autopsy examination.

RETAINED EVIDENCE: Cardiac blood, eye fluid and gallbladder bile specimens are obtained during the course of autopsy examination and are forwarded to consultant laboratory for blood type and Rh factor and bile toxicology screen.



FINAL ANATOMIC DIAGNOSES:

- 1. STATUS POST RECENT BLUNT IMPACT TRAUMA TO THE HEAD, CHEST, AND ABDOMEN, WITH:
 - A. SCALP LACERATIONS OF LEFT PARIETAL-OCCIPITAL SCALP AND MIDLINE OCCIPITAL SCALP REGIONS.
 - B. LINEAR INDENTED DEPRESSED SKULL FRACTURE, LEFT PARIETAL-OCCIPITAL LOBE SKULL REGIONS; LEFT OCCIPITAL SKULL FRACTURE.
 - C. SUBARACHNOID HEMORRHAGE, BILATERAL CEREBRAL HEMISPHERES; CORTICAL DISRUPTION OF LEFT PARIETAL-TEMPORAL LOBE REGION; SUPERFICIAL AND DEEP CORTICAL CONTUSIONS, FRONTAL, TEMPORAL AND PARIETAL LOBE REGIONS; INTRA-VENTRICULAR HEMORRHAGE, LATERAL HORNS OF THIRD VENTRICLE.
 - D. POSTERIOR MEDIASTINAL INTERSTITIAL HEMORRHAGE.
 - E. LACERATION, HILUM OF SPLEEN; HEMOPERITONEUM, 250 CC ESTIMATED VOLUME.
- 2. PULMONARY EDEMA AND CONGESTION, RIGHT LUNG 1,210 GRAMS, LEFT LUNG 890 GRAMS.
- 3. LEFT UPPER CHEST PLEURAL FENESTRATION (LEFT ANTERIOR 1ST-2ND RIB INTERSPACE); LEFT HEMOTHORAX, 1,000 CC.
- 4. STATUS POST CLINICAL CARDIOPULMONARY RESUSCITATIVE MEASURES.
- 5. MODERATE PETECHIAL HEMORRHAGES, CONJUNCTIVA, LOWER EYELIDS, BILATERALLY.



COMMENT: This is the case of the death of a 23 year old male subsequent to an apparent head-on vehicle impact collision. He was the reported driver of a vehicle involved in this collision. The clinical diagnosis was that of a closed head injury. The autopsy examination reveals there to be present deep scalp lacerations of the left side of the head and the back of the head region. The scalp laceration to the left side of the head has an underlying linear, vertically oriented, indented, depressed skull fracture with an associated depression of the bone of the inner table of the skull in that region. Present within the underlying brain tissue beneath this depressed skull fracture is a region of disruption of the superficial cortex. There is present bilateral mild to moderate degrees of subarachnoid hemorrhage present. There is a moderate degree of both superficial and deep cortical contusions of the brain in the inferior portions of the temporal, frontal and parietal lobe regions. A pattern of contusions within the brain is suggestive of an axial movement of the head and brain in a front to back motion with subsequent contusion of the undersurface of the brain. The pattern of depressed indented skull fracture is suggestive of a linear portion of the inner surface of the vehicle impacting with the side of this young man's head. This would likely result in the patient becoming unconscious with death due to subsequent closed head injury. There is noted to be present, also, a left hemothorax which is felt most likely to be secondary to fenestration of the left upper anterior chest region related to a plastic catheter placement in this region. The cause of death in this case is that of subarachnoid hemorrhage; cortical laceration and contusions due to left skull fracture due to blunt impact trauma. The manner of death is accident.

, M.D. FORENSIC PATHOLOGIST

Appendix J:

NASS CDS OCCUPANT ASSESSMENT FORM:
VEHICLE #2 DRIVER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

U.S. Department of Transportation National Highway Traffic Safety

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| Administration | OCCUDANT'S SEATING |
|---|--|
| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING 10. Occupant's Seat Position |
| 2. Case Number - Stratum 9999 | Front Seat |
| 3. Vehicle Number | (11) Left side (12) Middle |
| 4. Occupant Number | (13) Right side (14) Other (specify): |
| OCCUPANT'S CHARACTERISTICS | (15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant |
| 6. Occupant's Sex (1) Male (2) Female (9) Unknown | Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 63 inches X 2.54 = 60 centimeters | Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown 165 pounds x .4536 = 75 kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |
| | |

| EJEC | CTION/E | NTRAPMENT |
|--|---------------|--|
| 12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown | 0 | 15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown |
| 13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown | 0 | 16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown |
| 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown | <u>\delta</u> | |
| | | |
| | | • |

| | RESTRAINT SYSTEM EVALUATION | | | | | |
|-----|--|--|--|--|--|--|
| 17. | Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt | 21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag | | | | |
| | (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown | Non-functional (2) Air bag disconnected (specify): | | | | |
| | Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) | (3) Air bag not reinstalled (9) Unknown | | | | |
| | (8) Other belt (specify): | 22. Air Bag System Deployment (0) Not equipped/not available | | | | |
| | (9) Unknown | (1) Air bag deployed during accident (as a result of impact) | | | | |
| 18. | Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed | (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined | | | | |
| | (01) Inoperative (specify): | (4) Nondeployed (5) Unknown if deployed | | | | |
| | (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown | (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) | | | | |
| | (08) Other belt used (specify): (12) Shoulder belt used with child safety seat | (9) Unknown | | | | |
| | (12) Shoulder beit used with child safety seat (13) Lap beit used with child safety seat (14) Lap and shoulder belt used with child safety seat | 23. Are There Indications of Air Bag System Failure? | | | | |
| | (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): | (O) Not equipped/not available (1) No (2) Yes (specify): | | | | |
| | (99) Unknown if belt used | (9) Unknown | | | | |
| 19. | Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat | Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts | | | | |
| | Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): | 24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt | | | | |
| | (8) Other improper use of manual belt system (specify): | (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): | | | | |
| | (9) Unknown | (8) Restrained, type unknown (9) Police indicated "unknown" | | | | |
| 20 | Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): | | | | | |
| | (9) Unknown | | | | | |

| | | HEAD RESTRAINT AN | D SE | AT E | VALUATION |
|-----|--|---|------|---|--------------------------------------|
| 25. | at Tr (0) (1) (2) (3) (4) (5) (6) | Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify): | | (0) 0 (1) N (2) S (3) S (4) S (4) S (5) D | Performance (this Occupant Position) |
| | (9) | Unknown | | - (7) (| Combination of above (specify): |
| 26. | | Type (this Occupant Position) Occupant not seated or no seat | | (8) C | Other (specify): |
| | (01) (02) (03) (04) (05) (06) (07) (08) (09) | Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify): Box mounted seat (i.e., van type) Unknown | | | MKNOWII |
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| | | | | | |

| | CHILD SAF | ETY SE | AT | |
|--|------------------------|--|--|----------------------------------|
| 28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your Notes are collection, Coding and Editing | OO O | | d Safety Seat Harness Usage d Safety Seat Shield Usage | 0 0 |
| (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat (| used | Not Vari | d Safety Seat Tether Usage e: Options below applicable to iables OA31-OA33.) No child safety seat | 00 |
| 29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specific seat) (8) Unknown child safety seat type (9) Unknown if child safety seat use | | (01) (02) (03) (09) | Designed With Harness/Shield/To After market harness/shield/tet added, not used After market harness/shield/tet Child safety seat used, but no harness/shield/tether added Unknown if harness/shield/teth added or used signed With Harness/Shield/Tethe Harness/shield/tether not used Harness/shield/tether used | her used after market er |
| 30. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Ag (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for Th (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat units or the safet | is Age/Weight This ht | (19 <i>Unk</i> (21 (22 (29 | Unknown if harness/shield/tether. Unknown if Designed With Harness/ Harness/shield/tether not used Harness/shield/tether used Unknown if harness/shield/tether Unknown if child safety seat u | <i>Shield/Tether</i> ner used |
| | | | | |

| | INJURY CONSEQUENCES | 38. Working Days Lost |
|--------------|---|--|
| 24 | Injury Severity (Police Rating) 3 | Code the number of days |
| 34 . | Injury Severity (Police Rating) | (up through 60) that the occupant |
| | (O) O - No injury | lost from work due to the accident (00) No working days lost |
| | (1) C - Possible injury | (61) 61 days or more |
| | (2) B - Nonincapacitating injury | (62) Fatally injured |
| | (3) A - Incapacitating injury (4) K - Killed | (97) Not working prior to accident |
| | (5) U - Injury, severity unknown | (99) Unknown |
| | (6) Died prior to accident | |
| | (9) Unknown | STOP - GO TO VARIABLE 44 ON PAGE 7 |
| | - | VARIABLES 39 THROUGH 43 ARE |
| 35 | Treatment - Mortality 3 | COMPLETED BY THE ZONE CENTER |
| _ J . | (0) No treatment | |
| | (1) Fatal | ^ ^ |
| | (2) Fatal - ruled disease (specify): | 39. Time to Death |
| | | Code number of hours from time of |
| | Nonfatal | accident to time of death up through 24 hours. If time of death is greater than 24 |
| | (3) Hospitalization | hours, code number of days. (Note: 1 day = |
| | (4) Transported and released | $31, 2 \text{ days} = 32, \dots n \text{ days} = 30 + n \text{ up}$ |
| | (5) Treatment at scene - nontransported (6) Treatment later | through 30 days $= 60$) |
| | (b) Treatment later (8) Treatment - other (specify): | (00) Not fatal (96) Fatal - ruled disease |
| | | (99) Unknown |
| | (9) Unknown | |
| | | 1 |
| 36 | Type Of Medical Facility (for Initial Treatment) | 40. 1st Medically Reported Cause of Death |
| JU. | (0) Not treated at a medical facility | 41. 2nd Medically Reported Cause of Death |
| | (1) Trauma center | |
| | (2) Hospital | 42. 3rd Medically Reported Cause of Death |
| | (3) Medical clinic (4) Physician's office | Code the Occupant Injury from line |
| | (5) Treatment later at medical facility | number(s) for the medically reported injury(s) which reportedly contributed to |
| | (8) Other (specify): | this occupant's death |
| | (0) Helicone | (00) Not fatal or no additional causes |
| | (9) Unknown | (96) Mode of death given but specific |
| | | injuries are not linked to cause of death. (specify): |
| 37. | Hospital Stay <u>0</u> 6 | or usaur. (specify): |
| | (00) Not Hospitalized | (97) Other result (includes fatal ruled |
| | 6 Code the number of days (up through 60) | disease) (specify): |
| | that the occupant stayed in hospital. (61) 61 days or more | (00) Halianina |
| | (99) Unknown | (99) Unknown |
| | | |
| | | 43. Number of Recorded Injuries for |
| | | This Occupant |
| | | Code the actual number of |
| | | injuries recorded for this occupant. (00) No recorded injuries |
| | | (97) Injured, details unknown |
| | | (99) Unknown if injured |
| | | |
| | • | |
| | | |

| | All Academic Carping Cyclem Crestition Cimical C | _ | | |
|-----|--|-------------|-----|--|
| | Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown Automatic (Passive) Belt System Use | | | Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): |
| 45. | (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown | | 49. | Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| 46. | Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown | 2 | | Check the Primary Source Used In Determining Belt Use. |
| 47. | Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat | <u>></u> | | Not equipped/not available/destroyed or rendered inoperative Vehicle inspection Official injury data Driver/occupant interview Other (specify): |
| | Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): | | | [] Unknown if belt used |
| | (8) Other improper use of automatic belt system (specify): (9) Unknown | | | |
| | ARE ALL APPLICABLE MEDICAL REC WITH INITIAL SUBMISSION? | OF | RDS | INCLUDED NO [] YES [|
| | UPDATE CANDIDATE | -7 | | NO IV YES [] |

| | OR WARREST SO TURNISH SO THE | | | BELT USE DETERMINATION |
|-----------|---|-----|-------------|---|
| 2 | OP-VARIABLES SO THROUGH STARE MPLETED BY THE ZONE CENTER | 53. | Prim (0) | hary Source of Belt Use Determination Not equipped/not available/destroyed |
| | | | (1) | or rendered inoperative Vehicle inspection |
| 50 | Glasgow Coma Scale (GCS) Score | | (2) (3) | Official injury data Driver/occupant interview |
| 50. | Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured | | (8) (9) | Other (specify): Unknown if belt used |
| | (01) Injured - not treated at medical facility (02) No GCS Score at medical facility | | | |
| | (03-15) Code the actual value of the initial GCS Score recorded at medical | | | |
| | facility. (97) Injured, details unknown | | | |
| | (99) Unknown if injured | | | · |
| 51. | Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): | | | |
| | (9) Unknown if blood given | | | |
| 52. | Arterial Blood Gases (ABG) – HCO ₃ | | | |
| | (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO3 | | | • |
| | (96) ABGs reported , HCO3 unknown (97) Injured, details unknown | | | |
| | (99) Unknown if injured | | | |
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Appendix K:

NASS CDS OCCUPANT INJURY FORM:
VEHICLE #2 DRIVER

U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

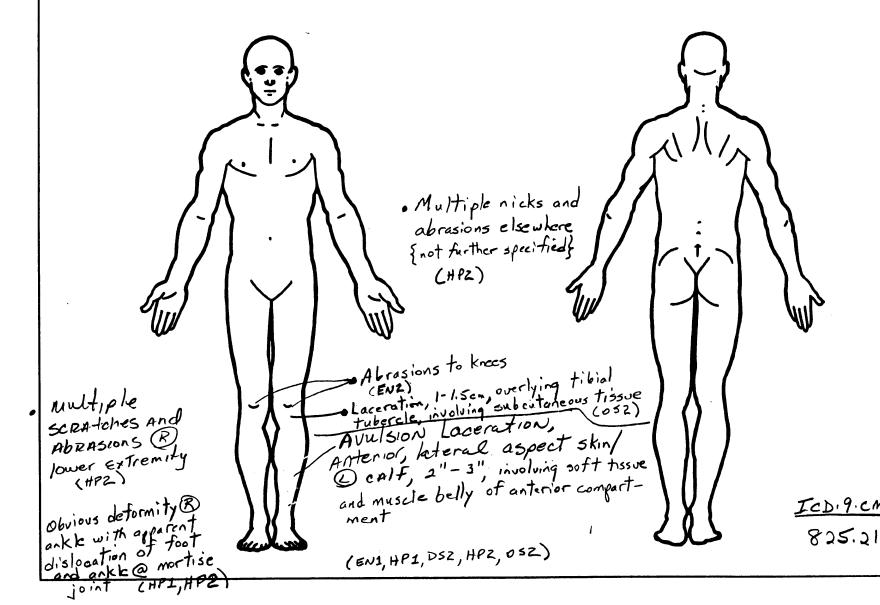
INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | | Source | | Type of | · | | A.I.S. | - | laine | Injury Source Confidence | Direct/ | Occupant Area Intrusion |
|-------------------------------|-----------------------|-------------------|----------------|-------------------------|-----------------------|-----------------------|--------------------|--------------|-----------------------|--------------------------|----------------|-------------------------|
| | | of Injury Data | Body Region | Anatomi Structure | | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Level | Injury | Number |
| Bimalle Fxs Ba | | 5. <u>2</u> | 6. <u>8</u> | 7. <u>5</u> | 8. <u>16</u> | 9. <u>/ 2</u> | 10. <u>2</u> | 11. / | 12.56 | 13. / | 14. <u>/</u> 1 | 5. <u>05</u> |
| Disloca Rankl | | 16. 2 | 17. 8 | 18. 5 | 19. <u>0 2</u> | 20. 10 | 21. 2 | 22/ | 23. <u>56</u> | 24 | 25. / 2 | 6. <u>05</u> |
| Binalle Fxs Da | obraid ard nkle | 27.2 | · 8 | 29. 5 | 30. <u>/ 6</u> | 31. <u>1 2</u> | 32. 2 | 33. <u>2</u> | 34. <u>56</u> | 35. / | 36. <u>/</u> 3 | 7.05 |
| Laceration Muscle 1eg | A O4th | 38. <u>2</u> | 39. <u>8</u> | 40. <u>4</u> | 41. 0 6 | 42. <u>0 0</u> | 43. <u>2</u> | 44. <u>2</u> | 45. <u>59</u> | 46. 2 | 47. 4 | 8. <u>05</u> |
| Lacerati proximal leg | Č ^{5th} | 49. 2 | 50. <u>8</u> | 51 | 52. <u>0</u> <u>6</u> | 53. 02 | 54/ | 55. <u>2</u> | 56. <u>09</u> | 57. <u>/</u> | 58. 1 5 | e. <u>04</u> |
| Alerusi Knee | en© 6th | 60. <u>3</u> | 61. <u>8</u> | 62. 9 | 63. 02 | 64. 02 | 65 | 66. 2 | 67. <u>0</u> <u>9</u> | 68 . <u>1</u> | 69. / 7 | o. <u>0 4</u> |
| Abrasi lower e tremit | 015 (B 7th y+kn | 71. <u>3</u> | 72. <u>8</u> | _{73.} <u>9</u> | 74. <u>0</u> <u>Z</u> | 75. <u>0</u> <u>2</u> | 76. <u>/</u> | 77. <u>/</u> | 78. <u>09</u> | 79. <u>/</u> | 80. <u>/</u> 8 | 1. <u>04</u> |
| Lacerati lower c tremit | x- | 82. <u>3</u> | 83. 8 | 84 | 85. <u>0 6</u> | 86. 00 | 87. / | 88. / | 89. <u>09</u> | 90. 2 | 91. <u>/</u> 9 | 12. <u>04</u> |
| · | 9th | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 1 | 02 10 |)3. <u> </u> |
| | 10th | 104 | 105 1 | 106 1 | 107 | 108 | 109 | 110 | 111 | 112 1 | 13 11 | 4 |
| | 1 | | | | | | | | | | | |

| OCCUPANT INJURY DATA | | | | | | | | | | | |
|----------------------|-----------------------------|----------------|----------------------------------|---|-----------------|--------------------|--|------------------|---|-------------------------------|---|
| | Source of Injury Data | Body Region | Type of Anetomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupant Area Intrusion Number |
| 11th | _ | | · | | | _ | | - | _ | | |
| 12th | _ | _ | | | | - | | | _ | | |
| 13th | _ | _ | _ | | | _ | | | | | |
| 14th | _ | | _ | | | - | | | | | |
| 15th | | _ | _ | | | - . | · | | | | • |
| 16th | _ | _ | _ | | | | | | | | |
| 17th | _ | | | | | _ | —————————————————————————————————————— | | · | | |
| 18th | _ | _ | | | - | _ | - | | | | |
| 19th | _ | _ | | | | _ | _ | | | | |
| 20th | | | | | | | | | · | | |
| 21et 22nd | _ | | _ | | | _ | _ | | | _ | - |
| 23rd | _ | | _ | | | | | | | | |
| 24th | | _ | | | . | _ | _ | | | | |
| 25th | | | | | | | | | | | |

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Pege

SOURCE OF INJURY DATA (25) Left eide window glass or frame (61) Backlight storage rack, door, etc. (25) Left side window glass including (62) Other rear object (specify): OFFICIAL one or more of the following: (1) Autopsy records with or without hospital/ trame, window sill, A (A1/A2)-piller, medical records EXTERIOR of OCCUPANT'S VEHICLE B-piller, or roof side rail. (2) Hospital/medical records other than (27) Other left side object (specify): (65) Hood emergency room (e.g., discharge (66) Outside hardware (e.g., outside summary) (3) Emergency room records only (including (28) Left side window sill mirror, antenna) (67) Other exterior surface or tires associated X-rays or other lab reports) RIGHT SIDE (4) Private physician, walk-in or emergency (specify): (30) Right side interior surface, (68) Unknown extenor objects clinic excluding hardware or armrests EXTERIOR OF OTHER MOTOR VEHICLE (31) Right side herdware or armrest UNOFFICIAL (32) Right A (A1/A2)-pillar (70) Front bumper (5) Lay coroner report (33) Right B-piller (71) Hood edge (6) E.M.S. personnel (34) Other right pillar (specify): (72) Other front of vehicle (specify): (7) Interviewee (B) Other source (specify): (35) Right side window glass or frame (73) Hood (9) Police (36) Right side window glass including (74) Hood omement one or more of the following: (75) Windshield, roof rail, A-pillar frame, window sill, A (A1/A2)-pillar, (76) Side surface INJURY SOURCE B-piller, or roof side rail. (77) Side mirrors (78) Other side protrusions (specify) (37) Other right side object (specify): **FRONT** (01) Windshield (38) Right side window sill (79) Rear surface (02) Mirror (80) Undercamage (O3) Sunvisor (81) Tires and wheels INTERIOR (04) Steering wheel rim (82) Other exterior of other motor vehicle (40) Seat, back support (05) Steering wheel hub/spoke (41) Belt restraint webbing/buckle (specify): (06) Steering wheel (combination (42) Belt restraint B-pillar or door frame of codes 04 and 05) (83) Unknown exterior of other motor vehicle attachment point (07) Steering column, transmission selector lever, other attachment (43) Other restraint system component (08) Add on equipment (e.g., CB, tape (specify): OTHER VEHICLE OR OBJECT IN THE deck, air conditioner) (44) Head restraint system ENVIRONMENT (45) Air bag (use codes "16" and "17" for injuries (84) Ground Left instrument panel and below sustained from air bag compartment covers) (85) Other vehicle or object (specify) (10) Center instrument panel and below (46) Other occupants (specify): (11) Right instrument penel and below (86) Unknown vehicle or object (12) Glove compartment door (13) Knee bolster (47) Interior loose objects NONCONTACT INJURY (14) Windshield including one or more (48) Child safety sest (specify): of the following: front header, (90) Fire in vehicle (49) Other interior object (specify): (91) Flying glass A (A1/A2)-pillar, instrument panel, (92) Other noncontact injury source mirror, or steering assembly (driver (specify): side only) (93) Air bag exhaust gases (15) Windshield including one or more ROOF (97) Injured, unknown source of the following: front header, (50) Front header A (A1/A2)-pillar, instrument panel, or (51) Rear header mirror (passenger side only) (52) Roof left side rail INJURY SOURCE CONFIDENCE Roof right side rail (16) Driver side air bag compartment cover (53)LEVEL Passenger side air bag compartment cover (54) Roof or convertible top (17) (1) Certain Windshield reinforced by exterior object (18)(2) Probable (specify): **FLOOR** Possible (3) (19) Other front object (specify): (56) Floor (including toe pan) Unknown (9) (57) Floor or console mounted transmission lever, including LEFT SIDE console **DIRECT/INDIRECT INJURY** (20) Left side interior surface. (58) Parking brake handle Direct contact injury

- excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-piller
- (24) Other left piller (specify):

- (59) Foot controls including parking brake

REAR

(60) Backlight (rear window)

OCCUPANT INJURY CLASSIFICATION

Body Region 121 Face Neck (4) Thorax (5) Abdomen (6) Spine (7) Upper Extremity Lower Extremity Unspecified (9)

Type of Anatomic Structure

- (1) Whole Area
- Vessels (2)
- (3) Nerves
- (4) Organs (includes muscles/
- (6) Skeletal (includes joints)
- LOC 191 Skin

Specific Anatomic Structure

| and Anatomic Stru |
|-------------------|
| le Area |
| Skin - Abrasion |
| Skin - Contusion |
| Skin - Lacuration |
| Skin - Avusion |
| Amputation |
| Burn |
| Crush |
| Degloving |
| Injury - NFS |
| |

- (90) Trauma, other than mechanical
 - Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness (10) Concussion
- Spine (02) Cervical (04) Thoracic (06) Lumbar
- Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

Minor injury Moderate injury (2) Serious injury (4) Severe injury Critical injury (6) Maximum (untreatable) Injured, unknown severity

Aspect

Indirect contact injury

injured, unknown source

Noncontact injury

| (1) | Right |
|-----|-----------|
| (2) | Left |
| (3) | Bilateral |
| (4) | Central |
| (5) | Anterior |
| (6) | Posterior |

(7) Superior Interior Unknown Whole region

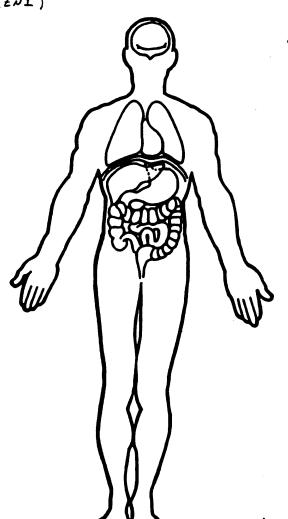
| | OFFICIAL INJURY DATA — SKELETAL INJURIES |
|---|--|
| Restrained? No Yes (EN1, EN2) | Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.) |
| Blood Alcohol Level (mg/dl) | C-Spine: Negative |
| Glasgow Coma Scale Score GCSS = 15 (EN1) | Chest: Normal (EXZ) |
| Unite of Blood Given Unite = | |
| Arterial Blood Gases pH = PO ₂ = | Slightly displaced media) Slightly displaced media ankle with comminute and comminute and comminut |
| PCO ₂ | rominuted Fx Dankle (OSZ, PXZ) Dankle (OSZ, PXZ) Malleolar Fx Seal/metaphysea junction seal/metaphysea junction seal/metaphysea junction maileolar Fx maileolar Fx maileolar Fx maileolar Fx maileolar Fx maileolar Fx maileolar Fx |
| | MAIN PROXIMAL MAIN PROXIMAL MEDIAL MAIleolus + is intact Shaft DISPLACED MEDIAL MAILEOLUS LEXT. PXZ |
| | CHP1, ENZ, DS2, PXZ) LATERAL MALLEOLUS (EX1, PXZ) (HP1, EX1, ENZ, DS2) DS2, HPZ) |

OFFICIAL INJURY DATA - INTERNAL INJURIES

· Denies head or neck pain (ENZ)

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

· No exp pain voiced (ENI)



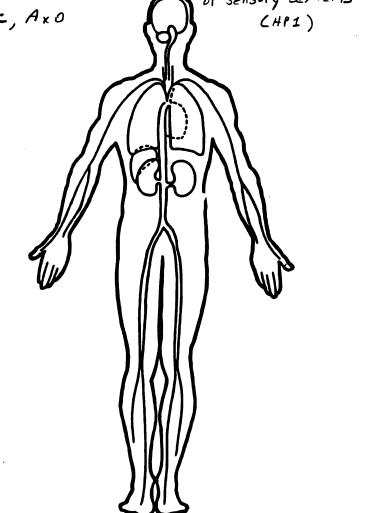
· No Abusea or Vomiting

(EN1)

Denics LOC, AxO

(HP1)

(HP2)



Hospital Medical Records [Initial Treatment Facility]

| ADMISSION | 1 | nauste | | | | HOSE | | | | |
|---------------------|---------------------------------------|------------|-------------|--|------------------|---------------|----------------|-------------|---------------|-----------------|
| PARENTS LAST NAME | | FIRST NAME | € MIDDL | ENAME | MAIDEN NAME | • | TH DATE | 28Y | ER ROOMBI | D ADM FROM |
| STREET ADDRESS | WIN ON BOX P | NO CITY | | STATE | ZIP | TE | LEPHONE NO | RELIGION | | OCCUPATION |
| soc. | SEC NO SEA | KACE | MARITAL S | STATUS | COUNTY | PT Ci | TYPE FSC | CACIE CODE | | |
| | F | W | ı | 1 | | | 02 05 | | 1 | |
| ADMISSION | DATE & TIME | | DATE & TIME | DAYS STAY | ATTENDING PHY | SICIAN | Bitte | NG NC | CONSUL | TING PHYSICIAN |
| VEXT OF | | | TIONSHIP | | ADDRESS | | TELEPHONE | | MEDICARE OR M | EDICAID NO |
| READMIT ADM | AISSION CI | LERK | PATIENTS EA | MPLOYER | | | EMPLOYERS ADDR | ESS | i | EMPLOYER S CODE |
| | | HOUSEW | | | | | | 2005 | | TELEPHONE |
| NOTIFY IN EMERGENCY | | | SPOUSE | GUZ | RANTOR OF ACCOUN | | AL | DORESS | | THE PROPERTY. |
| 1 M'CARE | MEDICARE | NO. | | PART | NAME AS APPEARS | ON MEDICARE (| CARD | | | EFF DATE |
| 2 M'CAID | MEDICAID I | NO | | VALID CARD SEEN | <u> </u> | CASE NAME | | | | €61 DATE |
| | - OR CER | RT. NO | | GROUP # | | SUBSCRIBER | | | | RE. 10 · |
| 3 BLUE CRO | POLICY NO | | | INS. CARRIER AND AD | Darer | | | SUBSCRIBE | | Rt. |
| 4 COM'L IN | S. | , | | INS. CARRIER AND AD | Mess. | | |) SOBSCRIBE | | |
| 5 WORK CO | MP | | | EMPLOYER AT TIME OF | ACCIDENT | | | ADDRESS | | DATE CH. NITH |
| 6 OTHER | | | | | | | <u>N</u> | IVA | | |
| CURRENT | | | | | | DDIVED AT | | | DT AT | AM/Pi |
| HISTORY | PATIENT HEA | | | | | | | EDURE | 1. Al | N W/1 |
| | MODE OF | ALLERGIES | | Manager | 11 | | | AM/Pi | M | |
| Y COR N | Self | | | | SI | GNATURE: | | | ··· | |
| Y RESP N | Ambulance | T P | R/P | WT | | RRIVED AT _ | | DEF | PT. AT | AM/P |
| Y NEUR N | ADMITTED | <u> </u> | | | — н | | | DURE | | |
| Y PREG N | PER | COMMENTS | | | | | AT | AM/P | М | |
| Y BP N Y GU N | Walk W. C | | | | I | GNATURE: | | DEI | DT AT | AM/F |
| Y MED N | Cart | | | | ll l | | | | | AM/F |
| Y RX N | Carned | | | | | | LERATED PROCE | | | |
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| | | | | | ⁰ | SCHARGED | AI | AM/Pi | M | |
| | | | | ······································ | SI | GNATURE: | | | | |
| TIME OF DISCHA | ADC E | | | | | | | | | |
| TIME OF DISCHA | | | | AM/PM | DISCH | ARGED VIA: | { } W. | ALK () W/ | C () CAR | T () CARRIED |
| MODE OF DISCH | HARGE | () SELF | () 4 | MBULANCE | HARGE INSTRUCT | IONS | | | | |
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| PRE-HOSPITAL | CARE | | Ę | S | pineboard eld IV So | j Judion | | -Collar | | | | | | |
|---------------------------------------|--------------|-----------------|--|--|------------------------|--|-------------|--|-------------------|---------------|--|----------------|------------|---------------------------------------|
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PROGRESS NOTES

| Name |) | Attending Physician | Room No. | Hosp. No. | | | | | | | | | |
|------|----------|--|--|-------------|--|--|--|--|--|--|--|--|--|
| Date | | Notes Should Be Signed by Physician | Notes Should Be Signed by Physician | | | | | | | | | | |
| | S: | 794 ER NOTE The patient is a 28 y/o white female who was involved in a 2 car MVA driving and had a head on collision with the other vehicle. She was ER by ambulance after paramedics extracted her from the vehicle. He | brought : | s to the | | | | | | | | | |
| | | Complaint was pain in her right foot. Past Medical History: Unremarkable. Serious illnesses: None. Medications: None regular. Allergies: None known. | , ,,,,,,,, | | | | | | | | | | |
| _ | 0: | Family History: Nothing significant for this event. Physical Exam: General: A well-developed, young white female who was in amazingly due to the injuries she has had. | little di | stress | | | | | | | | | |
| | | HEENT: Normocephalic. PERRLA. Fundi normal. Neck: Examined after cervical spine films obtained and revealed no rigidity. No JVD. No bruits. No abnormal masses. No thyroidamega Chest: Normal to inspection. Lungs are clear. Heart: Regular rhythm without murmur, gallop, or rub. | aly. | | | | | | | | | | |
| | | Abdomen: Soft. Non-tender. No masses. No organomegaly. Bowel so normal. No CVA tenderness. External Genitalia: Normal. Extremities: There is obvious deformity of the right ankle with apprint dislocation of the foot and ankle at the ankle mortise joint. Fract suspected. There is an avulsion laceration over the anterior lateraleft calf. Pulses in both lower extremities are 24 and equal. The warm. Skin: Laceration as noted. No other abnormalities. Heurological: She is oriented to person, place, and time. No obvious | parent (ure 15 (1 aspect (extremiti) | es are | | | | | | | | | |
| | A: F: | to Fracture dislocation, right ankle. 2. Non-displaced fractures, insuster to Dr | , left ani | ìe. | | | | | | | | | |
| | DATE | : SIGNED:94 DT: \$94 | , M.D. | | | | | | | | | | |
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Progress Notes

| FILL I | N OR CIRCLE APPROPRIATE TO CHIEF COMPLAINT | _ | | |
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| | WT: IMMUNIZATIONS UP TO DATE Y N | 4 | | |
| | AFFECT 1 | _ | | |
| PEDIATRIC | DEVELOPMENTALLY APPROPRIATE FOR AGE Y N | _ | | |
| ED! | IF NO. DESCRIBE | _ | | |
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| ATION | RESPIRATIONS: Shallow Labored Retractions BREATH SOUNDS Clear Crackles Coarse Wheezes Expir-Inspir | 1 | NURSING DIAGNOSIS | INITIAL INTERVENTION |
| VENTILATION | COUGH: Y N Productive Y N Sputum | 2 3 | INEFFECTIVE BREATHING PATTERNS BAPAIRED GAS EXCHANGE | OXYGEN MONITOR ALARMS ON |
| z | SKIN TYPE: Warm Coo Dr. Moist Other Roca COO | - 4 | ALTERED CARDIAC OUTPUT | MONITOR V S NIBP MONITOR |
| CIRCULATION | SKIN COLOR: Normal Cyanotic Pale Other Other Other | ع [| ACTERED TISSUE PERFUSION | |
| JC ∪L | Right Left EDEMA Absent Pedal Other PULSES Radial Y - N Y - N | 1 | | |
| Ş | Pedal O N | _ | | |
| | NEUROLOGICAL: Glascow Coma Scale E_ M _ V _ Total | - | | |
| COGNITION | SPEECH: Slurred Rambling Aphasic | 6 | IMPAIRED VERBAL COMMUNICATION | ALLERGY BAND ON |
| | BEHAVIOR: Cooperative Uncooperative Confused Unresponsive Restless Combative Crying Anxious Other | _ 7 _ 8 | SENSORY/PERCEPTUAL ALTERATIONS ALTERED THOUGHT PROCESSES | SIDERAILS UP |
| WW | NOT APPLICABLE | 4 | POTENTIAL FOR INJURY | CALL BELL IN REACH SOFT RESTRAINTS |
| 88 | | - 4 | POTENTIAL FOR VIOLENCE SELF- | |
| | SKIN INTEGRITY: Burns Bruises Laceration Abrasion Rash Decubitus Description | _ 12 | | ICE |
| Z ¥ | PAIN: Location 25 Puncture With Care | - 13 | MPAIRED PHYSICAL MOBILITY PAIN ACUTE OR CHRONIC | ELEVATION SUNG/SPLINT |
| MOBILITY | Quality/Duration/Pattern (C) Cont., V (S) Motion/Sensation | | POTENTIAL FOR INFECTION | C-SPINE IMMOBILIZATION POSITION OF COMFORT |
| ₹ 0 | Additional Comments | - ~ | POTENTIAL FOR INFECTION | WOUND CLEANSED DRESSING |
| | A A | -67 | LUID VOLUME DEFICIT EXCESS | |
| NUTRITION FLUID STATUS ELIMINATION | Nausea Vomiting Diarrhea Constipation Bowel Sounds Skin Turgor Mucous Membranes | 18 | CONSTIPATION/DIARRHEA | NPO |
| STIC | Bleeding Source | - 19 - 20 | | ILO THERMAL MEASURES |
| 15 J. W. | NOT APPLICABLE | | | PAD COUNT |
| 2 4 4 | | 21 | IMPAIRED HOME MAINTENANCE MANAGEMENT | HEME TEST |
| > | EYE OPENING MOTOR RESPONSE VERBAL RESPONSE | 22 | • | SOURCE |
| GCMA SCALE | 6 Obeys Commands 3-Flexion 5-Oriented 3-Inappropriate Words | 24 | NONCOMPLIANCE (SPECIFY) | SOCIAL WORKER CALLED |
| OM/ CAL | 2-To Pain 4-Withdraw 1-None Conversation 1-None | 25 | | CRISIS CALLED |
| 5 O W | 1-None | | TIME SIGNATURE | |
| | | 1 | | |
| | CHARGE - TRANSFER ASSESSMENT - FILL IN OR CIRCLE WHER | L E APPF | ROPRIATE RELATIVE TO FINAL DIAG | NOSIS |
| | | | ed/Satisfactory (1 Stable ii Guard | |
| RES | PIRATIONS Regular Shallow Labored Retractions [] [| OOA | 0 Expired | |
| CAR | DING MOTOR CONTRACTOR | | ON AT TIME OF DISCHARGE P to Room per wheelchair ca | iri ambulatory |
| PUL | 0.00 | Ndmit O | P to Room per wheelchair o | art ambulatory |
| NEU | | | s to Floor Yes - No | |
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| PAIN | 0 (| Sustody | of Law Enforcement | |
| U | 0 | | r to per ambulance la SIGNATURE | mily vehicle |
| | Warm Dry Cool Moist Normal Pale Cyanotic Other TIME | سے ر | | RN |
| | ESSMENT UNCHANGED | /) | | / \ / \ |

| X-F | RAY REQUEST | | | | | |
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| TRANSPORT | EXAMINATION REQUESSED | | | | | |
| ☐ WALK | 1) C-Soire | | | | | |
| □ wc | 2) (R) (e) | | | | | |
| STRETCHER | 3) (1) (e) | | | | | |
| PORTABLE | 4) 0 | | | | | |
| | | | | | | ORDERING PHYSICIAN |
| BIRTHDATE | IS PATIENT PREGNANT OR POSSIBLY PREGNANT | ☐ YES | AGE | SEX | PREVIOUS RADIOLOGY STUDIES | O. D. F. II. G. P. T. S. C. S. S. S. S. S. S. S. S. S. S. S. S. S. |
| ☐ INPATIENT | ADMITTING DX: | | | CHIEF CO | OMPLAINT PERTINENT TO EXAM ORDERED: | |
| OUTPATIENT | • | | | | | - About A |
| E.R. PATIENT | TECHNICIAN | REQUES | TPD AV | | PATIENT FILE NUMBER | DATE TO 94 |

CERVICAL SPINE, AP & LATERAL VIEWS: No fracture or subluxation seen. The disc spaces and vertebral heights are within normal limits. The odontoid and spinous processes are unremarkable.

IMPRESSION: Negative cervical spine.

RIGHT LOWER LEG: There is comminuted fracture of the distal fibula with medial angulation and displacement of the distal major fragment laterally. The medial malleolus is fractured and the main proximal shaft is displaced medially losing the contour of the ankle mortise. There is slight overriding of the distal tibia and talus in the medial aspect. Marked soft tissue swelling is seen.

LEFT LOWER LEG: There is medial and lateral malleolar fracture. Ankle mortise is intact.





PRESENT ILLNESS

| ORDERS | · |
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| RDERS O CBC O PROFILE 7 O MULTICHEM O CARDIAC O WORKUP O ETOH O DRUG SCREEN O QUALITATIVE HCG O CARDIAC MONITOR O THEOPHYLLIN O MONOSPOT O WORKUP O ETOH O TEST O C-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE O T-SPINE | |
| OTHER: | SKULL RIBS KUB ABD - FLAT & UPRIGHT |
| ALUATION AND DIAGNOSIS | CCMR |
| | |
| DISCHARGE WITH INSTRUCTIONS OF ADMIT IP OP 13 RELEASE BODY TO FUNERAL HOME OF FAMIL TRANSFER TO SERVICES OF AMEDICANCE OF FAMIL | Y'S CHOICE LY CAR |

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Trauma Center Medical Records

{Facility to which Occupant was transported by Ambulance}

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|] SKILLED CARE | CORONERS CASE | □ YES [| □ NO | | | | | |
| INTERMEDIATE CARE | | · | | | | | | |
| PERSONAL CARE | | | | | | | | |
|] HOME HEALTH | · | | | | | | | |
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PATIENT:
ATTENDING:
MR#:

LOCATION:

DOB:

, MD

DISCHARGE SUMMARY

ADMISSION DATE:

94

DISCHARGE DATE:

DISCHARGE DIAGNOSES:

1. FRACTURED DISLOCATION OF THE RIGHT ANKLE, BIMALLEOLAR FRACTURE OF THE LEFT ANKLE.

2. LACERATIONS OF THE LEFT LEG.

OPERATION:

Debride, irrigate, tube and close laceration of the left leg,closed reduction percutaneous screw fixation using 2 cannulated screws, medial malleolar fracture of the left ankle with application of short leg cast, open reduction and internal fixation of fracture dislocation of right ankle, application of long leg cast.

SUMMARY: This 28 year old lady was admitted to the hospital following a motor vehicle accident in which she sustained fracture dislocation of her ankle on the right, lacerations and fracture of her left ankle. She was seen in the emergency room, admitted and was subsequently taken to the operative suite. She underwent debridement, irrigation and delay primary closure of her lacerations with internal fixation, medial malleolar fracture on the left with open reduction internal fixation of the right ankle. Post operatively she has done very well. She has learned transfers and she is aware that she must remain nonweight bear on both her lower extremities. She is afebrile and has reached maximum hospital benefit. She is discharged at this time to be followed on an outpatient basis.

DISCHARGE MEDICATIONS:

Tylox prn pain.

She is to follow up in approximately one week to ten days.

> DISCHARGE SUMMARY PG 1 of 1

Hospital , Kentucky

EMERGENCY ROOM FLOW SHEET

| Date | e: | | | | | | | | | | | | 1 | | | |
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| PARENTERAL/BLOOD | | | | | | | | AL/BI | LOOD | | 1 | | · · · · · · | | EKG | |
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PATIENT:
ATTENDING:
MR#:
LOCATION:

, MD

HISTORY AND PHYSICAL

DATE OF ADMISSION:



HISTORY OF PRESENT ILLNESS: This is a 28-year-old lady who was involved in a motor vehicle accident when the vehicle she was driving struck a car that pulled out in front of her driving the front end of the car back into the driver's compartment. She denies any loss of consciousness, complains of pain in her lower extremities, no other pain. She was initially seen at Hospital where she was evaluated and was noted to have no problems except injuries to her lower extremities. X-rays there revealed a fracture dislocation of her right ankle, fracture of her left ankle. She was subsequently transferred to our care.

PHYSICAL EXAMINATION:

GENERAL: She presents awake, alert and oriented. Normocephalic. EOMS

intact. Nasopharynx is clear.

NECK: No bruits are appreciated. Trachea is midline.

LUNGS: Clear to auscultation. CARDIAC: Regular rate and rhythm.

ABDOMEN: Soft with normal bowel sounds. No back tenderness.

PELVIS: Stable.

LOWER EXTREMITIES: Shows that there is an obvious dislocation of her right ankle. There are multiple scratches and abrasions on her right lower extremity. She does have intact pulses, relates decreased sensation in the first web space. She is able to dorsal flex and plantar flex her toes. The left lower extremity shows some soft tissue lacerations and an avulsion type laceration of the anterior shin on the left. This does not appear to go down to bone. It is involving only soft tissue. She also has multiple nicks and abrasions elsewhere. She has good dorsalis pedis pulse, posterior tibial pulse. She is able to dorsal flex and plantar flex her toes well and relates intact sensation in her foot.

Review of her x-rays show that she has a lateral dislocation of her right ankle. She has an essentially nondisplaced medial malleolar fracture and fracture of her fibula that is an incomplete type of fracture. We have, under IV sedation, reduced her right ankle in the emergency room, placed her in pillow splints, placed sterile saline dressings on the lacerations, admitted her to the hospital and will plan



PATIENT:
ATTENDING:
MR#:
LOCATION:
DOB:

, MD

HISTORY AND PHYSICAL

on taking her to the operating room tomorrow for open reduction, internal fixation of both of her fractured ankles. Will also debride, irrigate, and close wounds at that time.

D: /94 T: 194

, MD



PATIENT:

MR#:
ATTENDING:

LOCATION:

DOB:

, MD

REPORT OF OPERATION

DATE OF SURGERY:

794

NAME OF SURGEON:

MD

PREOP DX:

 Lacerations x 2, left leg, with slightly displaced medial malleolus, nondisplaced lateral malleolar fracture, left ankle.

2. Fracture dislocation of right ankle with comminuted fibular fracture at diaphyseal/metaphyseal junction. Comminuted medial malleolar fracture, right ankle.

POSTOP DX: Same.

OPERATION:

- 1. Debride, irrigate, tube and close lacerations of left leg with tubing of distal laceration.
- Closed reduction and percutaneous screw fixation using two cannulated screws, medial malleolar fracture left ankle. Application of short leg cast.
- 3. Open reduction, internal fixation with Rush pin, fibular fracture.
- 4. Open reduction, internal fixation medial malleolus with two cannulated screw fixation, right ankle. Application of long leg cast.

ANESTHESIA: MAC/Epidural.

DETAILS OF OPERATIVE PROCEDURE: With the patient under good epidural anesthetic, both lower extremities were prepped and draped in the usual manner. The left leg was exsanguinated, the tourniquet inflated. Attention was turned to the two lacerations. A small, approximately 1 to 1.5 cm. laceration was overlying the region of the tibial tubercle. This was debrided. It was copiously irrigated with antibiotic solution and closure was carried out by closing the subcutaneous tissue with 3-0 undyed Vicryl then the skin with 3-0 nylon. The more distal laceration was a larger, complex, stellate type laceration involving muscle belly of the anterior compartment. This laceration was debrided, was thoroughly irrigated with antibiotic solution. A tube for irrigation, suction, drainage was placed deep in the wound. The muscle belly was closed with 0-undyed Vicryl. The subcutaneous tissue was closed with 2-0 Vicryl and then the skin was closed with 3-0 nylon.



PATIENT: MR#: ATTENDING: LOCATION: DOB:

, MD

REPORT OF OPERATION

Attention was then turned to the ankle, where, with C-arm control, the ankle was manipulated. The medial malleolus was maintained in good position, was fixed with two guide pins and then the guide pins measured and stabilized using cannulated screws passed over the guide pins and screwed down until good fixation was obtained. Again, C-arm control was used to verify position and alignment. The ankle mortis was noted to be well maintained in good position and alignment. The fracture appeared to be firmly fixed.

Attention was then turned to the right ankle after these wounds had been dressed and a bulky dressing applied until the cast could be completed. The right ankle was then exsanguinated with an Esmarch bandage. The tourniquet inflated. At this the tourniquet was deflated on the left ankle. A lateral incision was made along the line of the fibula, dissection was carried out sharply through the skin and subcutaneous tissue down to and exposing the fracture in the comminuted portion so the proximal most fragment could be identified, as well as the distal fragment, down to the tip of the lateral malleolus. A curvilinear incision was also made around the medial malleolus. Dissection carried out sharply through skin and subcutaneous tissue. The saphenous vein identified and protected. The fracture medially was identified. Soft tissue was cleared out of it. It was irrigated and debrided of all blood clot. The whole ankle joint was copiously irrigated with antibiotic solution from the medial side, and then attention was turned back to the lateral side. This was irrigated. Rush pin was placed in the tip of the lateral malleolus, driven intramedullarily up to the fracture site, across the fracture site, and into the intramedullary portion of the proximal fragment. Once this was established, the comminuted fragments were pulled back around to maintain length, and stabilized with #2 Vicryl sutures. The wound again was irrigated. Closure was carried out by closing the fascia with a running 0 Vicryl suture, the subcutaneous tissue closed with 2-0 Vicryl and the skin closed with wide skin staples. The medial side of the ankle, the medial malleolus was reduced, there was noted to be comminution at the posterior aspect of it where bone chips had been lost, but it was placed near anatomic position, was fixed with two guide pins from the cannulated screws. These guide pins were measured and then appropriate sized cannulated 4.0 screws were used to stabilize With this completed, C-arm was moved in and the medial malleolus. This medial side was then again verified good position and alignment. irrigated. It was closed by closing the subcutaneous tissue with 2-0 Vicryl and the skin with skin staples. The wounds were all dressed with



PATIENT:
MR#:
ATTENDING:
LOCATION:
DOB:

, MD

REPORT OF OPERATION

Betadine and Adaptic. Sterile fluffs, sterile Sof-Rol and a long leg bent knee cast with the ankle in neutral position was applied.

Then the bulky dressing was removed from the wounds on the left ankle. It was redressed with Betadine and Adaptic, fluffs, sterile Sof-Rol, and a short leg cast with ankle in neutral position was applied.

A this time, the tourniquet on the right ankle had been released, as had the left leg tourniquet been released earlier. The operation was terminated. The patient was transferred off the operating table to the hospital bed and subsequently to the Post Anesthesia Care Unit in satisfactory condition.

D: //94 T: 64 94

PG 3 of 3

RUN ON 94-1834

HOSPITAL
CUMULATIVE SUMMARY
RESULTS SUMMARIZED THROUGH

PAGE 1 RUN FOR 94

MD

**************** DISCHARGE SUMMARY - DO NOT DESTROY ***********

BLOOD CULTURES

[BLOOD, PERIPHERAL]

COLLECTED - 94 2030 (94:80066245)

SPECIAL INSTRUCTIONS? BLOOD CULTURES X 2 15 MINS. APART

COMMENTS? PLEASE NOTIFY NURSE AFTER 2ND BC DRAWN, SO ANTIBIO

IS COLLECTION SITE PERIPHERAL OR CENTRAL LINE? P

IS THIS A NEUTROPENIC PATIENT? N

BLOOD CULTURE
FINAL: NO GROWTH - 5 DAYS

COLLECTED - 94 2045 (94:B006625R)

SPECIAL INSTRUCTIONS? BLOOD CULTURES X 2 15 MINS. APART

COMMENTS? PLEASE NOTIFY NURSE AFTER 2ND BC DRAWN, SO ANTIBIO

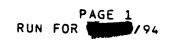
IS COLLECTION SITE PERIPHERAL OR CENTRAL LINE? P

IS THIS A NEUTROPENIC PATIENT? N

BLOOD CULTURE
FINAL: NO GROWTH - 5 DAYS

RUN ON 4500004-1834

HOSPITAL CUMULATIVE SUMMARY RESU IS SUMMARIZED THROUGH



********* DISCHARGE SUMMARY - DO NOT DESTROY **********

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| COLLECTED | WBC (4_8=10_8) TH/MM3 | RBC (4.2=5.4) M/MM3 | HEMOGLOBIN (12.0-16.0) G/DL | HEMATOCRIT (37-47) % | MCV (81-99) FL | |
|--|-----------------------------|---------------------------|--|---|-------------------------|----------------|
| 05/17 0550 05/16 0522 05/15 0522 05/14 0512 05/13 1547 05/12 1738 | 17.5 H | 4:20 | 10.7 L 10.9 L 11.1 L 13.0 12.5 | 30.5 L 31.4 L 31.8# L 37.1 37.3 | 88.0 | |
| COLLECTED | MCH (27-31) PG | MCHC (33-37) G/DL | RDW (11.5-14.5) | PLATELET (130-400) | MPV (7.4-10.4) FL | SEG (50-65) |
| 05/12 1738 COLLECTED | 30.6 BAND (0-5) | 3417 LYMPHS (20-40) | 12.9 MONOCYTES (0-10) | 307 | 8.4 | 85 H |
| 05/12 1738 | 4 | 8 Ł | 3 | | | |

ROUTINE URINALYSIS

| COLLECTED | COLOR | CHARACTER | GLUCOSE | BILIRUB | IN KETONES | |
|------------|----------|-------------|-----------|---------|------------|--------------------|
| 05/13 0335 | YELLOW | CLEAR | NEGATIVE | NEGATIV | E NEGATIV | E |
| | SPECIFIC | GRAV: OCCUL | T BLOOD F | РН | PROTEIN | UROBILINOGEN |
| COLLECTED | | | | | ٠. | (0.1-1.0) EU/DL |
| 05/13 0335 | 1.015 | NEGAT | IVE 6 | .0 | NEGATIVE | 0.2 |
| COLLECTED | NITRITE | LEU.ESTERA | SE | | | |
| 05/13 0335 | NEGATIVE | NEGATIVE (1 |) | | | |

NOTE: (1) MICROSCOPIC NOT INDICATED

HOSPITAL

, KY 🕶

DEPARTMENT OF RADIOLOGY

RADIOLOGY REPORT

NAME PHYS

DOB: AGE: 28 ACCT: LOCATION: 94 STATUS:

SEX: F

EXAM DATE: RADIOLOGY NO: UNIT NO:

EXAMS: CHEST 1 VIEW

History: Bilateral fx ankles

CHEST, ONE VIEW: This film was made AP and semiupright. The lungs are well aerated and free of infiltrate. The costophrenic angles are sharp. The heart is normal in size and the mediastinum is not wide.

IMPRESSION:

NORMAL ONE VIEW CHEST EXAMINATED 1)

, M.D.

CC: TRANSCRIBED DATE/TIME TRANSCRIPTIONIST: PRINTED DATE/TIME:

PAGE 1

MEDICAL RECORDS COPY

HOSPITAL

, KY 🕊

DEPARTMENT OF RADIOLOGY

RADIOLOGY REPORT

NAME: PHYS: DOB:

AGE: 28

SEX: F

ACCT: EXAM DATE: RADIOLOGY NO:

UNIT NO:

LOCATION: /94 STATUS:

EXAMS: ANKLE, ANKLE

BILATERAL ANKLE FRACTURES

LEFT ANKLE; TWO VIEWS: These films were made post-op in the recovery room. This patient has a fracture of the medial malleolus. The fracture has been stabilized in good position with two bone screws and is now enclosed in a plaster cast. The ankle mortise is normal.

RIGHT ANKLE; TWO VIEWS: The right ankle is enclosed in a plaster cast. The patient has a fracture of the medial malleolus, stabilized with a metal screw, and there is a fracture of the distal fibula, stabilized with an intramedullary K-wire. The ankle mortise is normal. There is rather extensive soft tissue swelling around the ankle, and there are also skin sutures.

IMPRESSION:

- 1) FRACTURE OF THE MEDIAL MALLEOLUS OF THE LEFT TIBIA, STABILIZED IN GOOD POSITION WITH TWO BONE SCREWS AND A PLASTER CAST.
- 2) FRACTURED MEDIAL MALLEOLUS OF THE RIGHT TIBIA, STABILIZED WITH A BONE SCREW.
- 3) COMMINUTED FRACTURE OF THE RIGHT FIBULA SHAFT, STABILIZED WITH AN INTRAMEDULLARY ROD AND A PLASTER CAST.

, M.D.

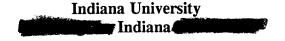
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TRANSCRIPTIONIST:
PRINTED DATE/TIME 94 (1859)

PAGE 1

MEDICAL RECORDS COPY

TRANSPORTATION RESEARCH CENTER



ON-SITE AIR BAG INVESTIGATION

SELECTED PHOTOGRAPHS

CASE NO. - 94-09
FLEET - PRIVATE VEHICLE
LOCATION KENTUCKY
ACCIDENT DATE - 1994

A total of ninety color copies of photographs are presented and referenced as Photograph #01 through Photograph #90. Photographs numbered #06, #09, #11, #21, #23, and #26 were taken and made available by the Crittenden County, Kentucky, Sheriff Department. The remainder of these photographs were taken by the Transportation Research Center.

1994

Contract Number: DTNH22-94-D-17058

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590



01 -- 1991 Chevrolet Corsica's westward, uphill (grade ~ 9 %), path of travel approximately 120 meters east of first harmful event



02 -- 1991 Chevrolet Corsica's westward, uphill (grade \sim 9 %), path of travel approximately 85 meters east of first harmful event



03 -- 1991 Corsica's westward, uphill (grade ~ 9 %), path of travel ~ 65 meters east of POI & west of right-hand curve's beginning



04 -- 1991 Corsica's westward path of travel as Corsica crosses over centerline in right-hand curve-- ~ 30 meters east of POI



05 -- 1991 Corsica's westward travel path as Corsica enters eastbound lane - 10 meters east of POI; NOTE: orange cone marks FRP area



06 -- On-scene view of 1988 Chevrolet C-1500 pickup's left front skidmark and point of deflection looking west in eastbound lane



07 -- Westward view of POI (circle) in eastbound lane & 1988 pickup's skidmark (dash crayon); NOTE: orange cone marks FRP area



08 -- 1991 Chevrolet Corsica's approximate final rest position area looking west



09 -- On-scene view of 1991 Chevrolet Corsica's final rest position looking west--Chevrolet is heading east at FR on north shoulder



10 -- View of glass (see cells F6--G6) at final rest position of 1991 Chevrolet Corsica



11 -- On-scene southwest view of 1991 Chevrolet Corsica at final rest after driver's extracation; NOTE: cut left B-pillar & blood







14 -- 1988 Chevrolet's eastward, uphill (grade \sim 4 %), travel path \sim 70 meters west of POI & east of left-hand curve's beginning



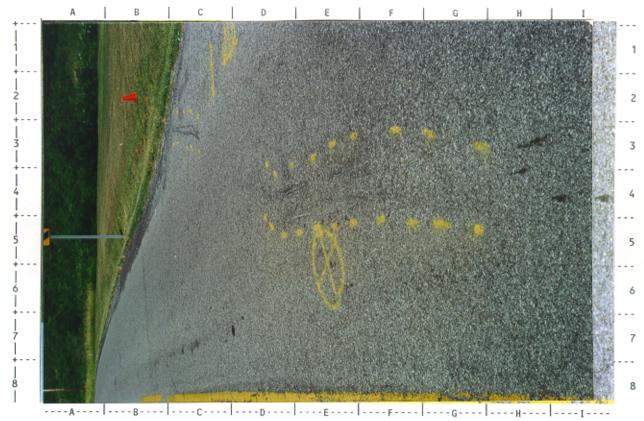
15 -- 1988 Chevrolet's eastward, uphill (grade ~ 4 %), travel path, in the left-hand curve, ~ 45 meters west of point of impact



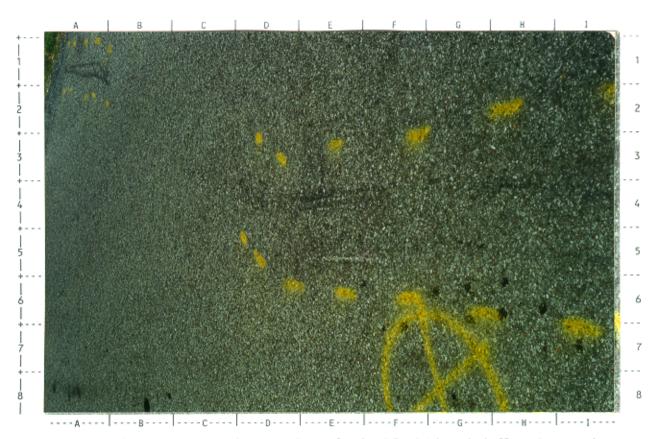
16 -- 1988 Chevrolet's eastward travel path near hillcrest ~ 20 meters west of POI; NOTE: orange cone marks Corsica's FRP (cell X#)



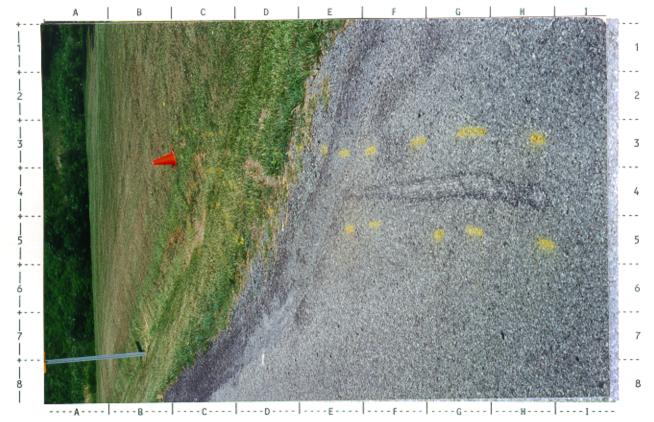
17 -- 1988 Chevrolet's eastward travel path after cresting hill near impact realization point; NOTE: orange cone marks FRP area



18 -- Eastward view of POI (circle) in eastbound lane & 1988 pickup's skidmark (dashed spray chalk); NOTE: orange cone marks FRP area



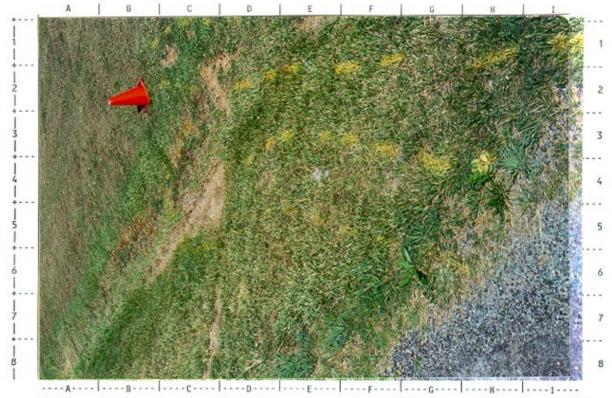
19 -- Close-up view of 1988 Chevrolet's LF skid and deflection marks along with gouge marks and POI circle--looking eastward



20 -- Close-up view of 1988 Chevrolet pickup's LF gouge mark leading to area of final rest marked by orange cone--looking southeast



21 -- On-scene view of 1988 Chevrolet pickup's final rest position looking east--Chevrolet is heading north at FR on south shoulder



22 -- Southeast view of marks on grass from 1988 Chevrolet pickup's LF wheel rim leading to final rest area



23 -- On-scene view of 1988 Chevrolet C-1500 pickup at final rest; NOTE: driver is entrapped inside vehicle



24 -- Northeast view of dead grass killed by radiator leakage from the 1988 Chevrolet C-1500 pickup at final rest



25 -- Westward view of 1988 Chevrolet C-1500 pickup's final rest position; NOTE: radiator grass kill & gouge in grass from LF rim



26 -- On-scene westward view of front of 1988 Chevrolet pickup at FRP; NOTE: 1991 Chevrolet Corsica's FRP (see cells E1--F1)



27 -- Westward view of 1988 Chevrolet pickup's LF gouge marks, POI, hillcrest, & curve; NOTE: Corsica's FRP marked by orange cone



28 -- Westward close-up of 1988 Chevrolet pickup's LF skidmark, POI, and point of deflection



29 -- Looking back (westward) at 1988 Chevrolet C-1500 pickup's path of travel from POI; NOTE: orange cone marks FRP of Corsica



30 -- Frontal view of 1991 Chevrolet Corsica's front left damage with contour guage present



31 -- Front left view of 1991 Corsica's front left damage with contour guage present; NOTE: peeled-back roof and cut L A- & B-pillars



32 -- Front left (45 degree angle) view of 1991 Corsica's front left damage without contour guage present; NOTE: roof & cut pillars



33 -- Front left (45 degree angle) view of direct damage to 1991 Chevrolet Corsica; NOTE: peeled-back roof and cut L A- & B-pillars



34 -- Front reference line viewed from left showing frontal damage to 1991 Chevrolet Corsica; NOTE: maximum crush and vertical rod



35 -- Front reference line viewed from right showing frontal damage to 1991 Chevrolet Corsica; NOTE: induced damage along front



36 -- View along 1991 Chevrolet Corsica's left side showing extensive FL corner damage; NOTE: maximum crush & vertical reference rod



37 -- Bumper level view along 1991 Chevrolet Corsica's left side showing extensive FL corner damage, maximum crush, & reference rod



38 -- Close-up front left (45 degree angle) view of 1991 Chevrolet Corsica's damage to left front tire and rim



39 -- Overhead left front view of crush to 1991 Chevrolet Corsica's left front fender crush



40 -- Overhead left center view of 1991 Chevrolet Corsica's driver area; NOTE: deployed air bag & roof peeled-back for extraction



41 -- Overhead left center view of interior surface of 1991 Chevrolet Corsica's peeled-back roof; NOTE: no visible contact evidence



42 -- Left back (45 degree angle) view of '91 Chevrolet Corsica; NOTE: direct contact to left A-pillar and roof corner (cells D1--E3)



43 -- Close-up of direct damage to '91 Chevrolet Corsica's left A-pillar and roof corner--viewed from back



44 -- Back view of 1991 Chevrolet Corsica's undamaged back



45 -- Right back view of 1991 Chevrolet Corsica's undamaged back and right side, except for peeled-back roof and induced FR damage



46 -- Front right view of frontal and extensive front left damage to 1991 Corsica; NOTE: peeled-back roof and undamaged RF A-pillar



47 -- Right side reference line viewed from front showing induced damage to 1991 Chevrolet Corsica's RF fender and front right corner



48 -- Damage to LF (driver's) door of 1991 Chevrolet; NOTE: red paint (1988 pickup's) transfer to top of window frame (cells G1--G2)



49 -- View of interior of 1991 Chevrolet Corsica's left front door; NOTE: no evidence of contact is visible



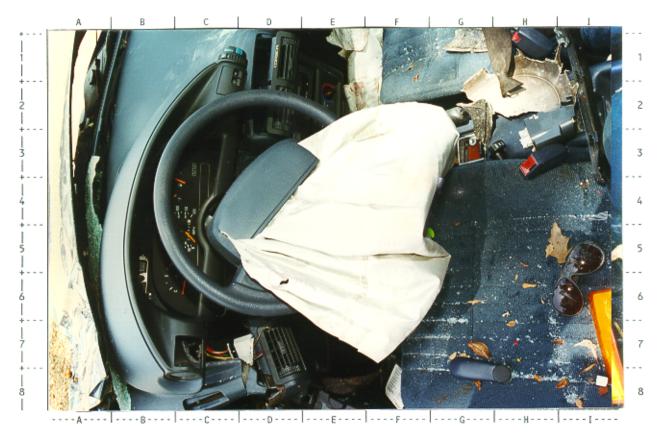
50 -- Damage to left rear door of 1991 Chevrolet Corsica; NOTE: door was removed during extraction process



51 -- Overhead right center view of 1991 Chevrolet Corsica's steering wheel and dash; NOTE: deployed air bag



52 -- Overhead left center view of 1991 Chevrolet Corsica's undeformed steering wheel and deployed air bag



53 -- Overhead back left view of 1991 Chevrolet Corsica's driver seating area; NOTE: damage to air vent on left side of dash



54 -- Close-up view of 1991 Chevrolet Corsica's driver air bag with blood smudge and 2.5 centimeter tear



55 -- Close-up of underside tears in '91 Corsica's driver air bag most likely from L doors being placed in front seat during towing



56 -- Interior of 1991 Chevrolet Corsica's lower left dash area viewed from left showing driver's left knee contact with knee bolster



57 -- Interior of 1991 Chevrolet Corsica's lower left dash area viewed from center showing driver's left knee contact with knee bolster



58 -- Overhead left front view of blood stained left front (driver's) seat of 1991 Chevrolet Corsica; NOTE: cut left B-pillar



59 -- View from RF seat of 1991 Chevrolet Corsica's blood stained LF seat; NOTE: R side seat marks occurred most likely post-crash



60 -- Stress marks present on torso portion of '91 Chevrolet Corsica's driver seat belt; see cells D4--E5



61 -- Stress mark present on D-ring of '91 Chevrolet Corsica's driver seat belt retractor; see cells E4--F5



62 -- Frontal view of 1988 Chevrolet C-1500 pickup's front left damage with contour guage present



63 -- Front left view of '88 Chevrolet pickup's front left damage with contour guage present; NOTE: FL hood damage and vertical rod



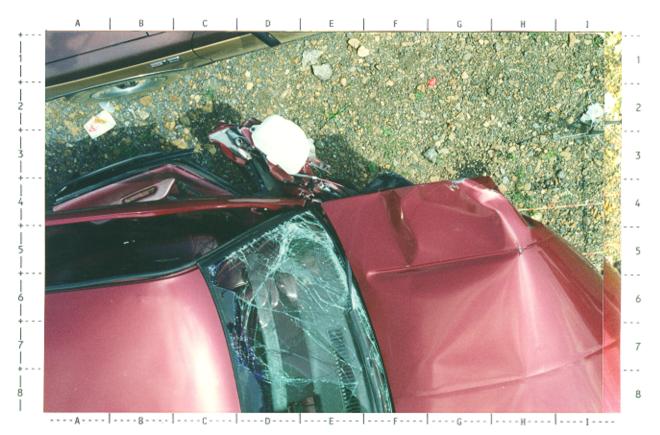
64 -- Left front reference line view showing frontal damage to 1988 Chevrolet C-1500 pickup; NOTE: vertical reference rod



65 -- Front left view of damage to 1988 Chevrolet pickup; NOTE: hood damage (cells D2--E3) from contact with '91 Corsica's A-pillar



66 -- Front left close-up of damage to 1988 Chevrolet pickup; NOTE: damage to FL hood, LF wheel, & continuation along left side



67 -- Overhead left front view of damage to '88 Chevrolet C-1500 pickup; NOTE: stress cracks to left windshield



68 -- Close-up of 1988 Chevrolet pickup's left front wheel damage; NOTE: broken steering rod and grass & mud in wheel rim



69 -- Close-up of direct damage to 1988 Chevrolet pickup's LF rim and also behind displaced left front wheel--viewed from left



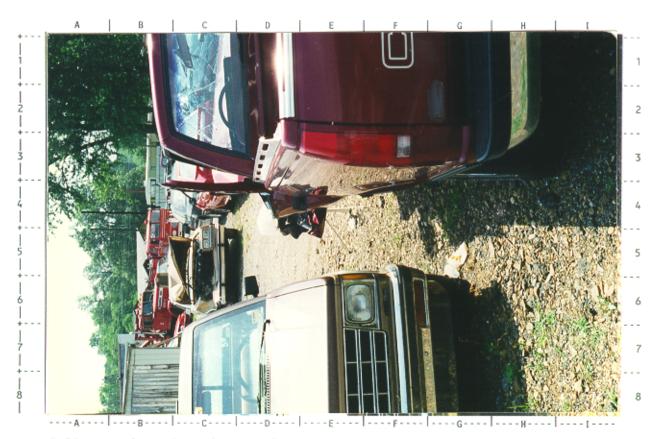
70 -- Close-up of direct damage to 1988 Chevrolet pickup's LF rim and also behind displaced left front wheel--viewed from back left



71 -- Left back view of 1988 Chevrolet C-1500 pickup; NOTE: outward bowing to left front (driver's) door & induced cargo bed damage



72 -- Close-up of '88 Chevrolet C-1500 pickup's outwardly bowed LF door; NOTE: latch & striker are still holding door closed



73 -- Left side reference line viewed from back shows frontal damaged to 1988 Chevrolet pickup; NOTE: undamaged back left corner



74 -- Back view of 1988 Chevrolet C-1500 pickup showing undamaged back side; NOTE: driver's door window frame is bent outwards



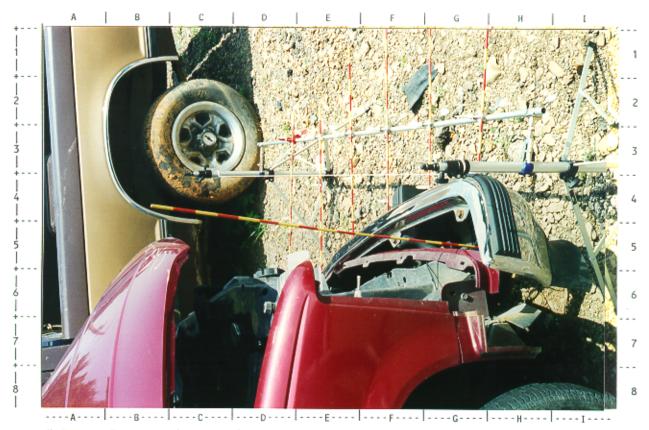
75 -- Right side reference line viewed from back shows induced damage to 1988 Chevrolet pickup; NOTE: shift between cab & cargo box



76 -- Right side view of 1988 Chevrolet C-1500 pickup showing undamaged right side except for induced damage to right front door



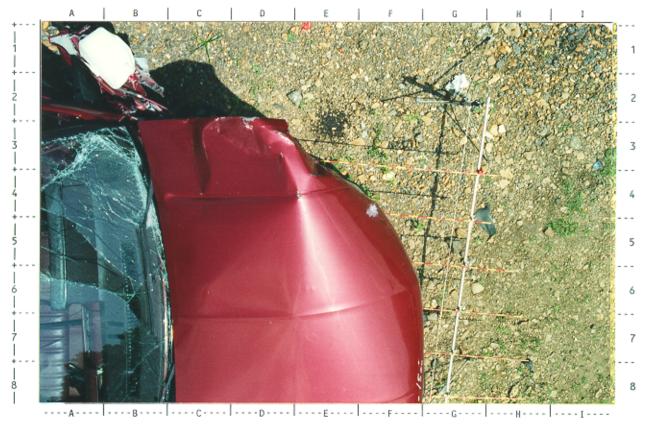
77 -- Right side reference line viewed from front does not show any damage to 1988 Chevrolet C-1500 pickup



78 -- Front reference line viewed from R with contour guage present shows damage to front left corner of '88 Chevrolet C-1500 pickup



79 -- Front reference line viewed from L with contour guage present shows damage to front left corner of '88 Chevrolet C-1500 pickup



80 -- Overhead left front view with contour guage present of front left damage to 1988 Chevrolet C-1500 pickup



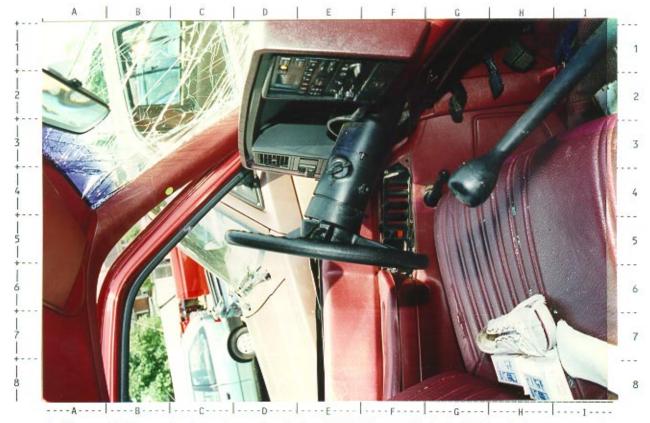
81 -- Interior view of driver's area of 1988 Chevrolet pickup; NOTE: contacts (dots) to door panel, steering wheel, & lower dash



82 -- Close-up of contacts to 1988 Chevrolet pickup's lower dash from driver's knees; NOTE: entrapment occurred in toepan area



83 -- Close-up of left knee contact to 1988 Chevrolet pickup's left lower dash area; NOTE: entrapment occurred in toepan area



84 -- Deformed steering wheel in 1988 Chevrolet C-1500 pickup viewed from right front passenger side



85 -- Close-up of deformed steering wheel in 1988 Chevrolet pickup viewed from RF; NOTE: possible contact to L A-pillar (cell A4)



86 -- Close-up of possible contact to 1988 Chevrolet pickup's left Apillar; NOTE: scuffing along A-pillar (cells C5--H6)



87 -- Close-up of probable contact to 1988 Chevrolet pickup's left door panel



88 -- Interior view of driver's seating area of 1988 Chevrolet pickup; NOTE: unused driver's 3-point lap and shoulder belt



89 -- Front center & right dash areas of 1988 Chevrolet pickup; NOTE: undamaged dash and minor intrusion to toepan area



90 -- Steering wheel & dash of 1988 Chevrolet pickup viewed from right exterior; NOTE: evidence of driver contacts (dots) on left dash